

## ARG62934 anti-CD81 antibody [M38]

Package: 100 µg  
Store at: -20°C

### Summary

|                     |                                                                                                                                                                      |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description | Mouse Monoclonal antibody [M38] recognizes CD81                                                                                                                      |
| Tested Reactivity   | Hu, Cat, Rb                                                                                                                                                          |
| Tested Application  | FACS, FuncSt, ICC/IF, IHC-P, IP, WB                                                                                                                                  |
| Specificity         | The clone M38 reacts with CD81, a 25 kDa member of the tetraspanin family, expressed on majority of cells.                                                           |
| Host                | Mouse                                                                                                                                                                |
| Clonality           | Monoclonal                                                                                                                                                           |
| Clone               | M38                                                                                                                                                                  |
| Isotype             | IgG1                                                                                                                                                                 |
| Target Name         | CD81                                                                                                                                                                 |
| Species             | Human                                                                                                                                                                |
| Immunogen           | MOLT-4 (human T-ALL cell line)                                                                                                                                       |
| Conjugation         | Un-conjugated                                                                                                                                                        |
| Alternate Names     | CD antigen CD81; TAPA1; Tspan-28; S5.7; CD81 antigen; Target of the antiproliferative antibody 1; Tetraspanin-28; 26 kDa cell surface protein TAPA-1; CVID6; TSPAN28 |

### Application Instructions

| Application table | Application      | Dilution                                                                                                                                                                                                                                                                                                                                              |
|-------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | FACS             | 1 µg/ml                                                                                                                                                                                                                                                                                                                                               |
|                   | FuncSt           | Assay-dependent                                                                                                                                                                                                                                                                                                                                       |
|                   | ICC/IF           | 1:25 - 1:200                                                                                                                                                                                                                                                                                                                                          |
|                   | IHC-P            | Assay-dependent                                                                                                                                                                                                                                                                                                                                       |
|                   | IP               | Assay-dependent                                                                                                                                                                                                                                                                                                                                       |
|                   | WB               | 1 - 2 µg/ml                                                                                                                                                                                                                                                                                                                                           |
|                   | Application Note |                                                                                                                                                                                                                                                                                                                                                       |
|                   |                  | Functional Application: In human MOLT-4 T-cell line the antibody M38 inhibits syncytium formation induced by co-culturing with human T-cell leukemia virus type 1 (HTLV-1)-positive human T-cell lines.<br>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |

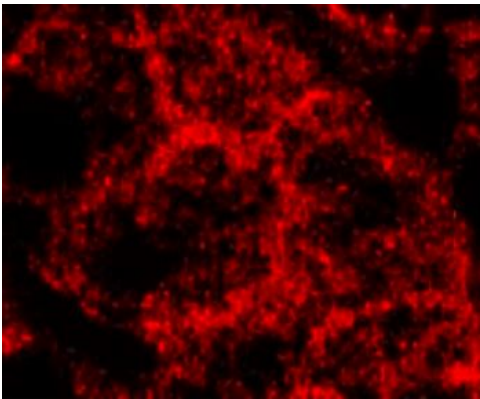
### Properties

|              |                                                                                   |
|--------------|-----------------------------------------------------------------------------------|
| Form         | Liquid                                                                            |
| Purification | Purified from hybridoma culture supernatant by protein-A affinity chromatography. |

|                     |                                                                                                                                                                                                                                                                                                                            |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purity              | > 95% (by SDS-PAGE)                                                                                                                                                                                                                                                                                                        |
| Buffer              | PBS (pH 7.4) and 15 mM Sodium azide                                                                                                                                                                                                                                                                                        |
| Preservative        | 15 mM Sodium azide                                                                                                                                                                                                                                                                                                         |
| Concentration       | 1 mg/ml                                                                                                                                                                                                                                                                                                                    |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note                | For laboratory research only, not for drug, diagnostic or other use.                                                                                                                                                                                                                                                       |

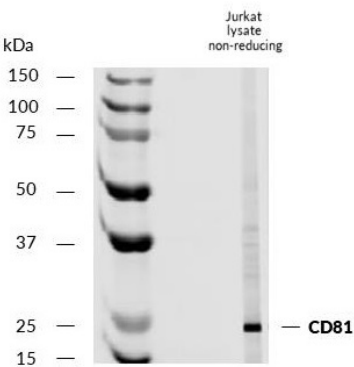
## Bioinformation

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Database links | <a href="#">GeneID: 975 Human</a><br><a href="#">Swiss-port # P60033 Human</a>                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Gene Symbol    | CD81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Gene Full Name | CD81 molecule                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Background     | CD81 (TAPA-1), a member of the tetraspanin family, is expressed on virtually all nucleated cells, but above all on germinal center B cells. CD81 forms complexes with other tetraspanin proteins, integrins, coreceptors, MHC class I and II molecules, and influences adhesion, morphology, activation, proliferation and differentiation of B, T and other cells – e.g. in muscles CD81 promotes cell fusion and myotube maintenance. CD81 has been also identified as a receptor for the hepatitis C virus. |
| Function       | May play an important role in the regulation of lymphoma cell growth. Interacts with a 16-kDa Leu-13 protein to form a complex possibly involved in signal transduction. May act as the viral receptor for HCV. [UniProt]                                                                                                                                                                                                                                                                                      |
| Highlight      | Related products:<br><a href="#">CD81 antibodies; Anti-Mouse IgG secondary antibodies;</a><br>Related news:<br><a href="#">Tools for studying Exosomes</a><br><a href="#">Detecting exosomal PD-L1 secreted by cancer cells</a><br><a href="#">New antibodies for exosome isolation</a>                                                                                                                                                                                                                        |
| Research Area  | Immune System antibody; Microbiology and Infectious Disease antibody                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Calculated Mw  | 26 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| PTM            | Not glycosylated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |



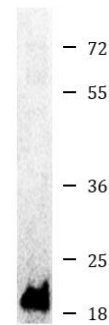
ARG62934 anti-CD81 antibody [M38] ICC/IF image

Immunofluorescence: Huh7.5 cells were fixed with 3% PFA, permeabilized by 0.05% saponin and blocked with 0.5% BSA/PBS. Cells were stained with ARG62934 anti-CD81 antibody [M38] for 1 hour at RT.



ARG62934 anti-CD81 antibody [M38] WB image

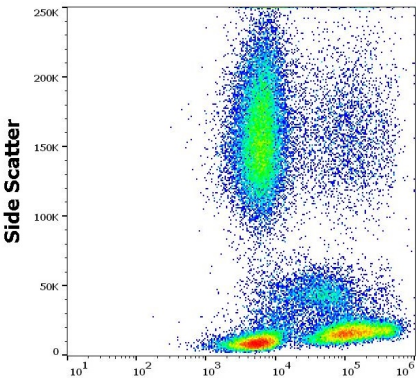
Western blot: Jurkat cell lysate stained with ARG62934 anti-CD81 antibody [M38] at 2 µg/ml dilution, under non-reducing condition.



K562

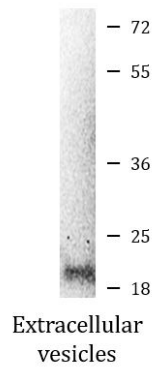
ARG62934 anti-CD81 antibody [M38] WB image

Western blot: K562 cell lysate stained with ARG62934 anti-CD81 antibody [M38] at 1:1000 dilution, under non-reducing condition.



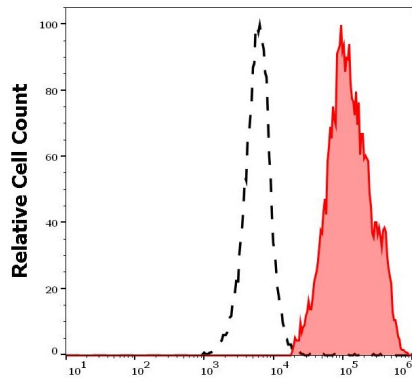
ARG62934 anti-CD81 antibody [M38] FACS image

Flow Cytometry: Human peripheral blood stained with ARG62934 anti-CD81 antibody [M38] at 4 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.



#### ARG62934 anti-CD81 antibody [M38] WB image

Western blot: Extracellular vesicles isolated from K562 cells. Sample was stained with ARG62934 anti-CD81 antibody [M38] at 1:1000 dilution, under non-reducing condition.



#### ARG62934 anti-CD81 antibody [M38] FACS image

Flow Cytometry: Separation of human lymphocytes (red-filled) from neutrophil granulocytes (black-dashed). Human peripheral whole blood stained with ARG62934 anti-CD81 antibody [M38] at 4  $\mu\text{g}/\text{ml}$  dilution, followed by APC-conjugated Goat anti-Mouse antibody.