

## ARG55815 anti-KLF4 antibody [56CT5.1.6]

Package: 100 µl  
Store at: -20°C

### Summary

|                     |                                                                                                          |
|---------------------|----------------------------------------------------------------------------------------------------------|
| Product Description | Mouse Monoclonal antibody recognizes KLF4                                                                |
| Tested Reactivity   | Hu                                                                                                       |
| Tested Application  | FACS, ICC/IF                                                                                             |
| Specificity         | This antibody recognize KLF4 and does not react to KLF4 alpha isoform.                                   |
| Host                | Mouse                                                                                                    |
| Clonality           | Monoclonal                                                                                               |
| Clone               | 56CT5.1.6                                                                                                |
| Isotype             | IgG1                                                                                                     |
| Target Name         | KLF4                                                                                                     |
| Species             | Human                                                                                                    |
| Immunogen           | KLF4 recombinant protein.                                                                                |
| Conjugation         | Un-conjugated                                                                                            |
| Alternate Names     | GKLF; EZF; Epithelial zinc finger protein EZF; Krueppel-like factor 4; Gut-enriched krueppel-like factor |

### Application Instructions

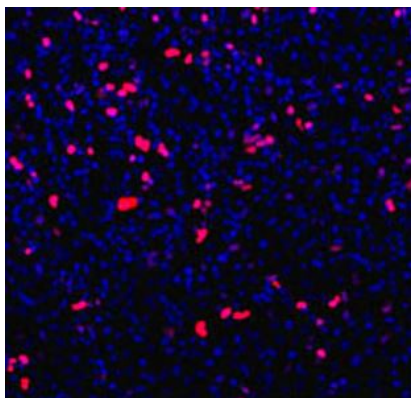
| Application table | Application                                                                                                                                | Dilution    |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|                   | FACS                                                                                                                                       | 1:10 - 1:50 |
|                   | ICC/IF                                                                                                                                     | 1:10 - 1:50 |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |             |

### Properties

|                     |                                                                                                                                                                                                                                                                                                                            |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form                | Liquid                                                                                                                                                                                                                                                                                                                     |
| Purification        | Purification with Protein A.                                                                                                                                                                                                                                                                                               |
| Buffer              | Purified PBS and 0.09% (W/V) Sodium azide                                                                                                                                                                                                                                                                                  |
| Preservative        | 0.09% (W/V) Sodium azide                                                                                                                                                                                                                                                                                                   |
| 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.                                                                                                                                                                                                                                                       |

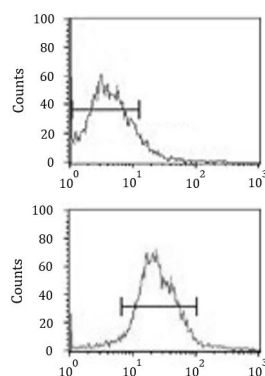
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Database links        | <a href="#">GeneID: 9314 Human</a><br><a href="#">Swiss-port # O43474 Human</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene Symbol           | KLF4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Gene Full Name        | Kruppel-like factor 4 (gut)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Background            | This gene encodes a protein that belongs to the Kruppel family of transcription factors. The encoded zinc finger protein is required for normal development of the barrier function of skin. The encoded protein is thought to control the G1-to-S transition of the cell cycle following DNA damage by mediating the tumor suppressor gene p53. Mice lacking this gene have a normal appearance but lose weight rapidly, and die shortly after birth due to fluid evaporation resulting from compromised epidermal barrier function. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2015]                                             |
| Function              | Transcription factor; can act both as activator and as repressor. Binds the 5'-CACCC-3' core sequence. Binds to the promoter region of its own gene and can activate its own transcription. Regulates the expression of key transcription factors during embryonic development. Plays an important role in maintaining embryonic stem cells, and in preventing their differentiation. Required for establishing the barrier function of the skin and for postnatal maturation and maintenance of the ocular surface. Involved in the differentiation of epithelial cells and may also function in skeletal and kidney development. Contributes to the down-regulation of p53/TP53 transcription. [UniProt] |
| Calculated Mw         | 55 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Cellular Localization | Nucleus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Images



ARG55815 anti-KLF4 antibody ICC/IF image

Immunofluorescence: HeLa cells transfected with pMX constructs of Human KLF4 were analyzed at ~ 62 hours after transfection. Cells were stained with ARG55815 anti-KLF4 antibody at 5 µg/ml dilution.



ARG55815 anti-KLF4 antibody FACS image

Flow Cytometry: MCF7 cells stained with ARG55815 anti-KLF4 antibody (bottom histogram) or without primary antibody control (top histogram), followed by incubation with PE labelled secondary antibody.