

## ARG45236 anti-MRPS22 antibody

Package: 50 µg  
Store at: -20°C

### Summary

|                     |  |
|---------------------|--|
| Product Description | Polyclonal antibody recognizes MRPS22  |
| Tested Reactivity   | Hu   |
| Tested Application  | FACS, ICC/IF, IHC-P, WB  |
| Host                | Rabbit   |
| Clonality           | Polyclonal   |
| Isotype             | Rabbit IgG   |
| Target Name         | MRPS22   |
| Species             | Human  |
| Immunogen           | Recombinant protein containing to human MRPS22.  |
| Conjugation         | Un-conjugated  |
| Alternate Names     | MRPS22; mitochondrial ribosomal protein S22; C3orf5; S22mt; GIBT; MRP-S22; COXPD5; RPMS22; GK002; 28S ribosomal protein S22, mitochondrial |

### Application Instructions

| Application table | Application  | Dilution                       |
|-------------------|--|--------------------------------|
|                   | FACS   | 1 - 3 µg/10 <sup>6</sup> cells |
|                   | ICC/IF   | 5 µg/ml                        |
|                   | IHC-P  | 2-5 µg/ml                      |
|                   | WB   | 0.25-0.5 µg/ml                 |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                                |
| Observed Size     | 38 kDa   |                                |

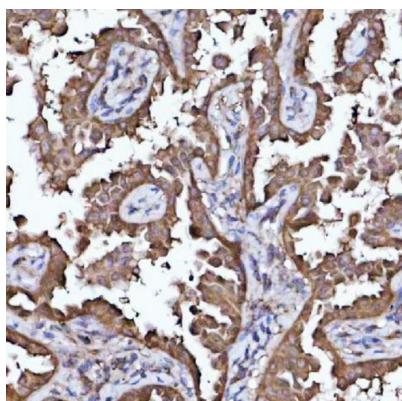
### Properties

|                     |  |
|---------------------|--|
| Form                | Liquid   |
| Purification        | Affinity purification with immunogen.  |
| Buffer              | 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.9% NaCl and 4% Trehalose.  |
| Stabilizer          | 4% Trehalose   |
| Concentration       | 0.5 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. |

## Bioinformation

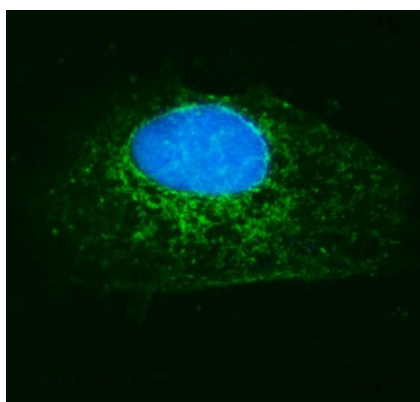
|                       |   |
|-----------------------|---|
| Gene Symbol           | MRPS22  |
| Gene Full Name        | mitochondrial ribosomal protein S22   |
| Background            | Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 28S subunit protein that does not seem to have a counterpart in prokaryotic and fungal-mitochondrial ribosomes. This gene lies telomeric of and is transcribed in the opposite direction from the forkhead box L2 gene. A pseudogene corresponding to this gene is found on chromosome Xq. [provided by RefSeq, Jul 2008] |
| Calculated Mw         | 41 kDa  |
| PTM                   | Acetylation ; Phosphoprotein. [UniProt]   |
| Cellular Localization | Mitochondrion. [UniProt]  |

## Images



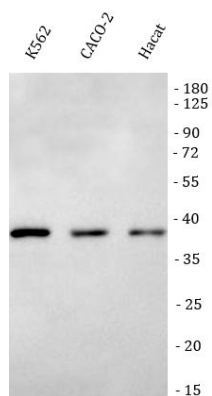
ARG45236 anti-MRPS22 antibody IHC-P image

Immunohistochemistry: Human lung cancer stained with ARG45236 anti-MRPS22 antibody at 2 µg/ml dilution.



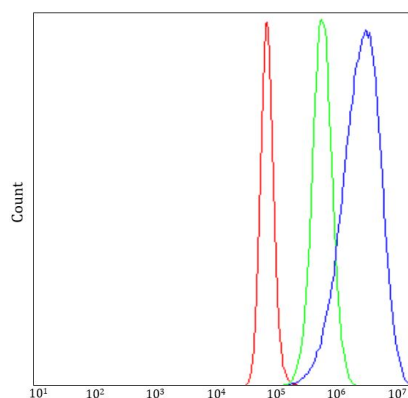
ARG45236 anti-MRPS22 antibody ICC/IF image

Immunofluorescence: MRPS22 stained with ARG45236 anti-MRPS22 antibody at 5 µg/ml dilution.



ARG45236 anti-MRPS22 antibody WB image

Western blot: K562, CACO-2, and Hacat stained with ARG45236 anti-MRPS22 antibody at 0.5  $\mu\text{g/ml}$  dilution.



ARG45236 anti-MRPS22 antibody FACS image

Flow Cytometry: HeLa stained with ARG45236 anti-MRPS22 antibody at 1  $\mu\text{g}/10^6$  cells dilution.