

## ARG57582 anti-LAPTM4B antibody

Package: 100 µl  
Store at: -20°C

### Summary

|                     |   |
|---------------------|---|
| Product Description | Rabbit Polyclonal antibody recognizes LAPTM4B   |
| Tested Reactivity   | Hu, Rat   |
| Tested Application  | WB  |
| Host                | Rabbit  |
| Clonality           | Polyclonal  |
| Isotype             | IgG   |
| Target Name         | LAPTM4B   |
| Species             | Human   |
| Immunogen           | KLH-conjugated synthetic peptide corresponding to aa. 195-209 of Human LAPTM4B.                                   |
| Conjugation         | Un-conjugated   |
| Alternate Names     | Lysosome-associated transmembrane protein 4-beta; LAPTM4beta; LC27; Lysosomal-associated transmembrane protein 4B |

### Application Instructions

|                   |  |                |
|-------------------|--|----------------|
| Application table | Application  | Dilution       |
|                   | WB   | 1:250 - 1:1000 |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                |
| Positive Control  | HeLa   |                |

### Properties

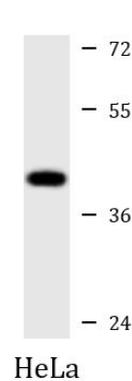
|                     |  |
|---------------------|--|
| Form                | Liquid   |
| Purification        | Purification with Protein A and immunogen peptide.   |
| Buffer              | PBS and 0.09% (W/V) Sodium azide.  |
| Preservative        | 0.09% (W/V) Sodium azide   |
| Storage instruction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

### Bioinformation

|                       |   |
|-----------------------|---|
| Gene Symbol           | LAPTM4B   |
| Gene Full Name        | lysosomal protein transmembrane 4 beta  |
| Function              | Required for optimal lysosomal function (PubMed:21224396). Blocks EGF-stimulated EGFR intraluminal sorting and degradation. Conversely by binding with the phosphatidylinositol 4,5-bisphosphate, regulates its PIP5K1C interaction, inhibits HGS ubiquitination and relieves LAPTM4B inhibition of EGFR degradation (PubMed:25588945). Recruits SLC3A2 and SLC7A5 (the Leu transporter) to the lysosome, promoting entry of leucine and other essential amino acid (EAA) into the lysosome, stimulating activation of proton-transporting vacuolar (V)-ATPase protein pump (V-ATPase) and hence mTORC1 activation (PubMed:25998567). Plays a role as negative regulator of TGFB1 production in regulatory T cells (PubMed:26126825). Binds ceramide and facilitates its exit from late endosome in order to control cell death pathways (PubMed:26280656). [UniProt] |
| Calculated Mw         | 35 kDa  |
| Cellular Localization | Endomembrane system; Multi-pass membrane protein  |

## Images

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ARG57582 anti-LAPTM4B antibody WB image

Western blot: 20 µg of HeLa cell lysate stained with ARG57582 anti-LAPTM4B antibody at 1:1000 dilution.