

# TIMM50 Recombinant Rabbit mAb

Catalog # AP100061

## Product Information

---

|                                |                                                                                                                                                                                                                                                                |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>             | WB, IHC-P, IHC-F, IF                                                                                                                                                                                                                                           |
| <b>Primary Accession</b>       | <a href="#">Q3ZCQ8</a>                                                                                                                                                                                                                                         |
| <b>Other Accession</b>         | <a href="#">Q3ZCQ8</a>                                                                                                                                                                                                                                         |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                         |
| <b>Clonality</b>               | Recombinant                                                                                                                                                                                                                                                    |
| <b>Calculated MW</b>           | 39646                                                                                                                                                                                                                                                          |
| <b>Physical State</b>          | Liquid                                                                                                                                                                                                                                                         |
| <b>Immunogen</b>               | A synthesized peptide derived from human TIMM50                                                                                                                                                                                                                |
| <b>Epitope Specificity</b>     | 25-77/353                                                                                                                                                                                                                                                      |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                            |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                                                                                                                 |
| <b>Buffer</b>                  | 10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol.                                                                                                                                               |
| <b>SIMILARITY</b>              | Belongs to the TIM50 family. Contains 1 FCP1 homology domain.                                                                                                                                                                                                  |
| <b>SUBUNIT</b>                 | Component of the TIM23 complex at least composed of TIMM23, TIMM17 (TIMM17A or TIMM17B) and TIMM50; within this complex, directly interacts with TIMM23. The complex interacts with the TIMM44 component of the PAM complex and with DNAJC15.                  |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                                                      |
| <b>Background Descriptions</b> | Essential component of the TIM23 complex, a complex that mediates the translocation of transit peptide-containing proteins across the mitochondrial inner membrane. Has some phosphatase activity in vitro; however such activity may not be relevant in vivo. |

## Additional Information

---

|                    |                                                                                                                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>     | 92609                                                                                                                                                                                           |
| <b>Other Names</b> | TIM50_HUMAN; TIMM50; TIM50; TIM50_MOUSE; translocase of inner mitochondrial membrane 50; translocase of inner mitochondrial membrane 50 homolog (yeast)                                         |
| <b>Dilution</b>    | WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500                                                                                                                                      |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

---

|                          |                                                                                                                                                                                                                                                                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | TIMM50                                                                                                                                                                                                                                                                                                                                |
| <b>Synonyms</b>          | TIM50                                                                                                                                                                                                                                                                                                                                 |
| <b>Function</b>          | Essential component of the TIM23 complex, a complex that mediates the translocation of transit peptide-containing proteins across the mitochondrial inner membrane (PubMed: <a href="#">30190335</a> , PubMed: <a href="#">38828998</a> ). Has some phosphatase activity in vitro; however such activity may not be relevant in vivo. |
| <b>Cellular Location</b> | Mitochondrion inner membrane; Single-pass membrane protein                                                                                                                                                                                                                                                                            |
| <b>Tissue Location</b>   | Widely expressed. Expressed at higher level in brain, kidney and liver (at protein level)                                                                                                                                                                                                                                             |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.