

# TOMM22 Rabbit pAb

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Catalog # AP56618

## Product Information

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| <b>Application</b>             | IHC-P, IHC-F, IF                                                                                                                                                                                                                                                                                   |
| <b>Primary Accession</b>       | <a href="#">Q9NS69</a>                                                                                                                                                                                                                                                                             |
| <b>Reactivity</b>              | Rat                                                                                                                                                                                                                                                                                                |
| <b>Predicted</b>               | Pig, Dog, Human, Mouse, Horse, Sheep                                                                                                                                                                                                                                                               |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                                             |
| <b>Clonality</b>               | Polyclonal                                                                                                                                                                                                                                                                                         |
| <b>Calculated MW</b>           | 15522                                                                                                                                                                                                                                                                                              |
| <b>Physical State</b>          | Liquid                                                                                                                                                                                                                                                                                             |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from human TOMM22                                                                                                                                                                                                                                         |
| <b>Epitope Specificity</b>     | 51-142/142                                                                                                                                                                                                                                                                                         |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                                                                                                                                                     |
| <b>Buffer</b>                  | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                                                                                                                                                                                                  |
| <b>SUBCELLULAR LOCATION</b>    | Mitochondrion outer membrane; Single-pass membrane protein                                                                                                                                                                                                                                         |
| <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> | The protein encoded by this gene is an integral membrane protein of the mitochondrial outer membrane. The encoded protein interacts with TOMM20 and TOMM40, and forms a complex with several other proteins to import cytosolic preproteins into the mitochondrion. [provided by RefSeq, Jul 2008] |

## Additional Information

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|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>     | 56993                                                                                                                                                                                           |
| <b>Other Names</b> | Mitochondrial import receptor subunit TOM22 homolog, hTom22, 1C9-2, Translocase of outer membrane 22 kDa subunit homolog, TOMM22, TOM22                                                         |
| <b>Dilution</b>    | 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

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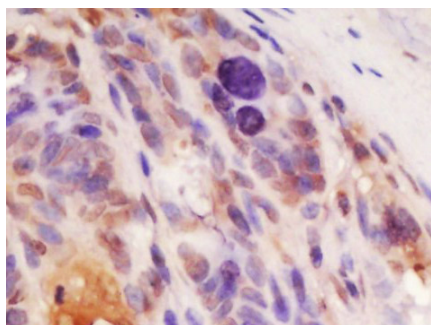
|                 |        |
|-----------------|--------|
| <b>Name</b>     | TOMM22 |
| <b>Synonyms</b> | TOM22  |

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Function</b>          | Central receptor component of the translocase of the outer membrane of mitochondria (TOM) complex essential for the recognition and translocation of cytosolically synthesized mitochondrial preproteins (PubMed: <a href="#">40080546</a> ). Together with the peripheral receptor TOMM20, functions as the transit peptide receptor and facilitates the movement of preproteins into the translocation pore (PubMed: <a href="#">10982837</a> ). The TOM complex associates with the ion channel VDAC2 and PINK1 kinase at depolarized mitochondria, this interaction stabilizes PINK1 at the outer mitochondrial membrane and triggers downstream mitophagy by the recruitment of the E3 ubiquitin ligase PRKN (PubMed: <a href="#">40080546</a> ). Required for the translocation across the mitochondrial outer membrane of cytochrome P450 monooxygenases (By similarity). |
| <b>Cellular Location</b> | Mitochondrion outer membrane; Single-pass membrane protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Tissue Location</b>   | Ubiquitous.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## Background

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## Images



Tissue/cell: rat colon tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
 Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;  
 Incubation: Anti-TOMM22 Polyclonal Antibody, Unconjugated(AP56618) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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