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# TOMM20 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50780

## Product Information

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|---|---|
| **Application** | WB |
| **Primary Accession** | Q15388 |
| **Reactivity** | Human, Mouse |
| **Host** | Rabbit |
| **Clonality** | polyclonal |
| **Calculated MW** | 16298 |

## Additional Information

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| **Gene ID** | 9804 |
| **Other Names** | Mitochondrial import receptor subunit TOM20 homolog, Mitochondrial 20 kDa outer membrane protein, Outer mitochondrial membrane receptor Tom20, TOMM20, KIAA0016 |
| **Dilution** | WB~~ 1:1000 |
| **Format** | Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol. |
| **Storage Conditions** | -20℃ |

## Protein Information

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|---|---|
| **Name** | TOMM20 |
| **Synonyms** | KIAA0016 |
| **Function** | 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:40080546). Together with TOMM22 functions as the transit peptide receptor at the surface of the mitochondrion outer membrane and facilitates the movement of preproteins into the TOM40 translocation pore (PubMed:18331822). 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:40080546). Required for the translocation across the mitochondrial outer membrane of cytochrome P450 monooxygenases (By similarity). |
| **Cellular Location** | Mitochondrion outer membrane; Single-pass membrane protein |

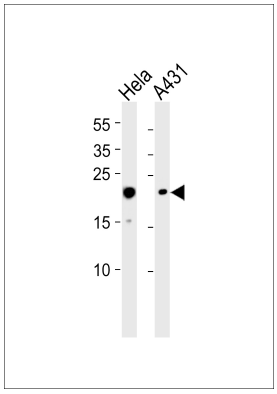
## Background

Central component of the receptor complex responsible for the recognition and translocation of cytosolically synthesized mitochondrial preproteins. Together with TOM22 functions as the transit peptide receptor at the surface of the mitochondrion outer membrane and facilitates the movement of preproteins into the TOM40 translocation pore (By similarity).

## References


Goping I.S.,et al.FEBS Lett. 373:45-50(1995).
Seki N.,et al.FEBS Lett. 375:307-310(1995).
Hernandez J.M.,et al.Gene 239:283-291(1999).
Nomura N.,et al.DNA Res. 1:27-35(1994).
Ota T.,et al.Nat. Genet. 36:40-45(2004).


## Images




Western blot analysis of lysates from Hela,A431 cell line (from left to right),using TOMM20 Antibody(AP50780). AP50780 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysates at 35ug per lane.


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