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TOMM20 Antibody

Rabbit mAb
Catalog # AP90530

Product Information

Application	WB, IHC, IF, FC, ICC, IHF
Primary Accession	Q15388
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	Mitochondrial import receptor subunit TOM20 homolog; Outer mitochondrial membrane receptor Tom20;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	16298

Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 FC 1:100
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human TOMM20
Description	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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

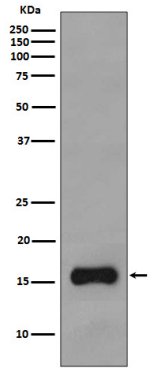
Protein Information

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

Images



Western blot analysis of TOMM20 expression in HepG2 cell lysate.

Image not found : 202311/AP90530-IHC.jpg

Immunohistochemical analysis of paraffin-embedded human colon, using TOMM20 Antibody.

Image not found : 202311/AP90530-IF.jpg

Immunofluorescent analysis of Hela cells, using TOMM20 Antibody .

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