

TOMM22/TOM22 Antibody

Rabbit mAb

Catalog # AP92239

Product Information

Application	WB, IHC, IF, FC, ICC, IP, IHF
Primary Accession	Q9NS69
Reactivity	Human
Clonality	Monoclonal
Other Names	1C9 2; hTom 22; hTom22; MST065; MSTP 065; MSTP065; TOM 22; TOM22; TOMM 22;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	15522

Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50 FC 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human TOMM22
Description	Central receptor component of the translocase of the outer membrane of mitochondria (TOM complex) responsible for the recognition and translocation of cytosolically synthesized mitochondrial preproteins. Together with the peripheral receptor TOM20 functions as the transit peptide receptor and facilitates the movement of preproteins into the 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	TOMM22
Synonyms	TOM22
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 the peripheral receptor TOMM20, functions as the transit peptide receptor and facilitates the movement of preproteins into the translocation pore (PubMed: 10982837). 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).

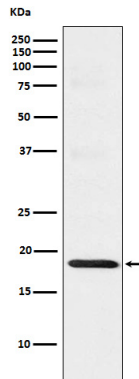
Cellular Location

Mitochondrion outer membrane; Single-pass membrane protein

Tissue Location

Ubiquitous.

Images



Western blot analysis of TOMM22/TOM22 expression in HeLa cell lysate.

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