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TOMM40 Rabbit pAb

Catalog # AP99095

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O96008
Other Accession	O96008
Reactivity	Rat
Predicted	Pig, Human, Mouse, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37893
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TOMM40
Epitope Specificity	101-200/361
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the Tom40 family.
SUBUNIT	Forms part of the preprotein translocase complex of the outer mitochondrial membrane (TOM complex) which consists of at least 7 different proteins (TOMM5, TOMM6, TOMM7, TOMM20, TOMM22, TOMM40 and TOMM70). Interacts with mitochondrial targeting sequences.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene is localized in the outer membrane of the mitochondria. It is the channel-forming subunit of the translocase of the mitochondrial outer membrane (TOM) complex that is essential for import of protein precursors into mitochondria. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Aug 2015]

Additional Information

Gene ID	10452
Other Names	C19orf1; D19S1177E; PER-EC1; PEREC1; TOM40; Tom40A; Mom35; OM38; XELAEV_18036023mg; tomm40; tomm40-a; TOM40_BOVIN; Translocase of outer membrane 40 kDa subunit homolog; TOM40_HUMAN; Protein Haymaker; p38.5; TOM40_MOUSE; Mitochondrial outer membrane protein of 35 kDa (MOM35); TOM40_RAT; Mitochondrial outer membrane protein of 38 kDa (OM38); TOM40_XENLA; translocase of outer mitochondrial membrane 40; translocase of outer mitochondrial membrane 40 homolog (yeast)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	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

Name	TOMM40
Synonyms	C19orf1, PEREC1, TOM40
Function	Channel-forming protein that forms part of the translocase of the outer mitochondrial membrane (TOM) complex essential for the recognition and translocation of cytosolically synthesized mitochondrial preproteins (PubMed:15644312, PubMed:31206022, PubMed:40080546). 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). Plays a role in the assembly of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) by forming a complex with BCAP31 and mediating the translocation of Complex I components from the cytosol to the mitochondria (PubMed:31206022).
Cellular Location	Mitochondrion outer membrane; Multi-pass membrane protein. Note=Associates with the mitochondria- associated ER membrane via interaction with BCAP31

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