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TOMM70A Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6745a

Product Information

Application	WB, IHC-P, E
Primary Accession	O94826
Other Accession	Q75Q39, Q9CZW5
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB20271
Calculated MW	67455
Antigen Region	177-205

Additional Information

Gene ID	9868
Other Names	Mitochondrial import receptor subunit TOM70, Mitochondrial precursor proteins import receptor, Translocase of outer membrane 70 kDa subunit, TOMM70A, KIAA0719, TOM70
Target/Specificity	This TOMM70A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 177-205 amino acids from the N-terminal region of human TOMM70A.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TOMM70A Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TOMM70 (HGNC:11985)
Function	Acts as a receptor of the preprotein translocase complex of the outer

mitochondrial membrane (TOM complex) (PubMed:12526792). Recognizes and mediates the translocation of mitochondrial preproteins from the cytosol into the mitochondria in a chaperone dependent manner (PubMed:12526792, PubMed:35025629). Mediates TBK1 and IRF3 activation induced by MAVS in response to Sendai virus infection and promotes host antiviral responses during virus infection (PubMed:20628368, PubMed:25609812, PubMed:32728199). Upon Sendai virus infection, recruits HSP90AA1:IRF3:BAX in mitochondrion and the complex induces apoptosis (PubMed:25609812).

Cellular Location Mitochondrion outer membrane; Single-pass membrane protein

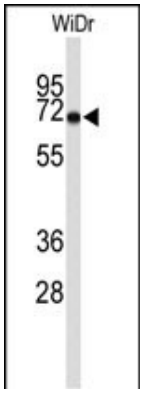
Background

The translocase of outer mitochondrial membrane (TOM) complex is a multisubunit complex involved in the recognition, unfolding, and translocation of preproteins into the mitochondria.

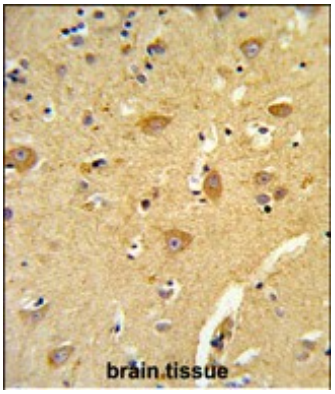
References

Blesa,J.R., et.al., Gene 427 (1-2), 58-64 (2008)
Chou,C.H., et.al., Mol. Biol. Cell 17 (9), 3952-3963 (2006)
Edmonson,A.M., et.al., Cell Commun. Adhes. 9 (1), 15-27 (2002)

Images



Western blot analysis of TOMM70A Antibody (N-term) (Cat.#AP6745a) in WiDr cell line lysates (35ug/lane). TOMM70A (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human brain tissue reacted with TOMM70A Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Citations

- Proteomic analysis of mitochondria in respiratory epithelial cells infected with human respiratory syncytial virus and functional implications for virus and cell biology.

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