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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, Bovine, Canine, Rabbit, Chicken
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

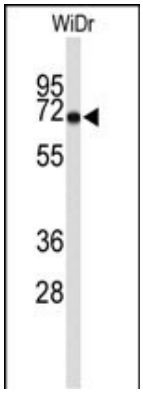
Background

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

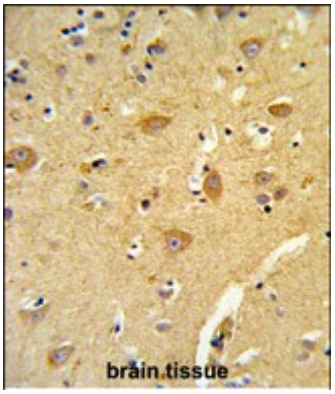
References

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'.