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TAPBP Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18702a

Product Information

Application	WB, E
Primary Accession	O15533
Other Accession	NP_003181.3
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB39546
Calculated MW	47571
Antigen Region	42-70

Additional Information

Gene ID	6892
Other Names	Tapasin, TPN, TPSN, NGS-17, TAP-associated protein, TAP-binding protein, TAPBP, NGS17, TAPA
Target/Specificity	This TAPBP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 42-70 amino acids from the N-terminal region of human TAPBP.
Dilution	WB~~1:1000 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	TAPBP Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TAPBP (HGNC:11566)
Synonyms	NGS17, TAPA
Function	Involved in the association of MHC class I with transporter associated with

	antigen processing (TAP) and in the assembly of MHC class I with peptide (peptide loading).
Cellular Location	Endoplasmic reticulum membrane; Single-pass type I membrane protein
Tissue Location	Neutrophils, mostly in fully differentiated cells.

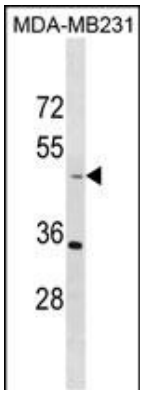
Background

This gene encodes a transmembrane glycoprotein which mediates interaction between newly assembled major histocompatibility complex (MHC) class I molecules and the transporter associated with antigen processing (TAP), which is required for the transport of antigenic peptides across the endoplasmic reticulum membrane. This interaction is essential for optimal peptide loading on the MHC class I molecule. Up to four complexes of MHC class I and this protein may be bound to a single TAP molecule. This protein contains a C-terminal double-lysine motif (KKKAE) known to maintain membrane proteins in the endoplasmic reticulum. This gene lies within the major histocompatibility complex on chromosome 6. Alternative splicing results in three transcript variants encoding different isoforms.

References

Jiang, Q., et al. Tumour Biol. 31(5):451-459(2010)
Rizvi, S.M., et al. Traffic 11(3):332-347(2010)
Praveen, P.V., et al. Eur. J. Immunol. 40(1):214-224(2010)
Barcellos, L.F., et al. PLoS Genet. 5 (10), E1000696 (2009) :
Lindquist, J.A., et al. EMBO J. 17(8):2186-2195(1998)

Images



TAPBP Antibody (N-term) (Cat. #AP18702a) western blot analysis in MDA-MB231 cell line lysates (35ug/lane).This demonstrates the TAPBP antibody detected the TAPBP protein (arrow).

Citations

- Host cell protein PSMB10 interacts with viral NS3 protein and inhibits the growth of classical swine fever virus.