

Rabbit anti-Human, Rat TAPBP Polyclonal Antibody | anti-TAPBP antibody

TAPBP Antibody

CATALOG # AAA326487	HOST Rabbit	REACTIVITY Human, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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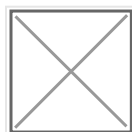
PRODUCT SYNONYMS

TAPBP; Polyclonal Antibody; TAPBP Antibody; NGS 17; NGS-17; NGS17; TAP associated protein; TAP binding protein; TAP binding protein (tapasin); TAP BP; TAP-associated protein; TAP-binding protein; TAPA; Tapasin; TPN; TPSN; TPSN_HUMAN; anti-TAPBP antibody

PRODUCT SPECIFICATIONS

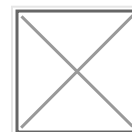
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	TAPBP antibody detects endogenous levels of total TAPBP
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	448
Applicable Applications for anti-TAPBP antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human TAPBP
Subcellular Location	Endoplasmic Reticulum Membrane.
Tissue Specificity	Neutrophils, mostly in fully differentiated cells.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit
Similarity	Pig (82%), Bovine (100%), Horse (91%), Sheep (100%), Rabbit (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of A431 cell lysate, using TAPBP Antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA326487 at 1/100 staining Rat colon tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-TAPBP antibody	Description: 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. 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). Subunit Structure: Heterodimer with PDIA3; disulfide-linked. Interacts with TAP1 and is thus a subunit of the TAP complex, also known as the peptide loading complex (PLC). Interaction with TAP1 is TAP2-independent and is required for efficient peptide-TAP interaction. Obligatory mediator for the interaction between newly assembled MHC class I molecules, calreticulin, PDIA3 and TAP. Up to 4 MHC class I/tapasin complexes bind to 1 TAP. Similarity: The N-terminus is required for efficient association with MHC class I molecule and for a stable interaction between MHC I and calreticulin. Binding to TAP is mediated by the C-terminal region.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	27436893
NCBI GeneID	6892
NCBI Accession #	NP_003181.3
NCBI GenBank Nucleotide #	NM_003190.4
UniProt Accession #	O15533; O15210; O15272; Q5STJ8; Q5STK6; Q5STQ5; A2AB91; A2ABC0; B0V003; B0V0A6; B2ZUA4; E9PGM2
Molecular Weight	Observed: 47 kDa Predicted: 48 kDa
NCBI Official Full Name	tapasin isoform 1
NCBI Official Synonym Full Names	TAP binding protein
NCBI Official Symbol	TAPBP
NCBI Official Synonym Symbols	TPN; TAPA; TPSN; NGS17
NCBI Protein Information	tapasin
UniProt Protein Name	Tapasin
UniProt Gene Name	TAPBP
UniProt Synonym Gene Names	NGS17; TAPA; TPN; TPSN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.