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Goat Anti-ABCB9 / TAPL Antibody
Peptide-affinity purified goat antibody
Catalog # AF1008a

Specification

Goat Anti-ABCB9 / TAPL Antibody - Product Information

Application	**IHC**
Primary Accession	Q9NP78
Other Accession	NP_982269, 23457
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**84475**

Goat Anti-ABCB9 / TAPL Antibody - Additional Information

Gene ID 23457

Other Names
ATP-binding cassette sub-family B member 9, ATP-binding cassette transporter 9, ABC transporter 9 protein, hABCB9, TAP-like protein, TAPL, ABCB9, KIAA1520

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-ABCB9 / TAPL Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-ABCB9 / TAPL Antibody - Protein Information

Name ABCB9 (HGNC:50)

Function
ATP-dependent low-affinity peptide transporter which translocates a broad spectrum of peptides from the cytosol to the lysosomal lumen for degradation (PubMed:15863492, PubMed:17977821, PubMed:18434309, PubMed:22641697, PubMed:<a

href="http://www.uniprot.org/citations/25646430" target="_blank">25646430, PubMed:30877195, PubMed:31417173, PubMed:30353140). Displays a broad peptide length specificity from 6-mer up to at least 59-mer peptides with an optimum of 23-mers (PubMed:15863492, PubMed:25646430). Binds and transports smaller and larger peptides with the same affinity (PubMed:31417173). Favors positively charged, aromatic or hydrophobic residues in the N- and C-terminal positions whereas negatively charged residues as well as asparagine and methionine are not favored (PubMed:15863492, PubMed:17977821, PubMed:18434309).

Cellular Location
Lysosome membrane; Multi-pass membrane protein {ECO:0000255|PROSITE-ProRule:PRU00441, ECO:0000269|PubMed:10748049, ECO:0000269|PubMed:15577206, ECO:0000269|PubMed:17897319, ECO:0000269|PubMed:17977821, ECO:0000269|PubMed:18175933, ECO:0000269|PubMed:18952056, ECO:0000269|PubMed:20377823, ECO:0000269|PubMed:21212514}. Note=May be located in membrane rafts Takes an intracellular route from the endoplasmic reticulum (ER), via Golgi and early endosomes to late endosomal and lysosomal compartments (PubMed:30877195).

Tissue Location
Highly expressed in testis, and at moderate levels in brain, spinal cord, and thyroid. Not expressed in monocytes but strongly expressed during differentiation of monocytes to dendritic cells and macrophages.

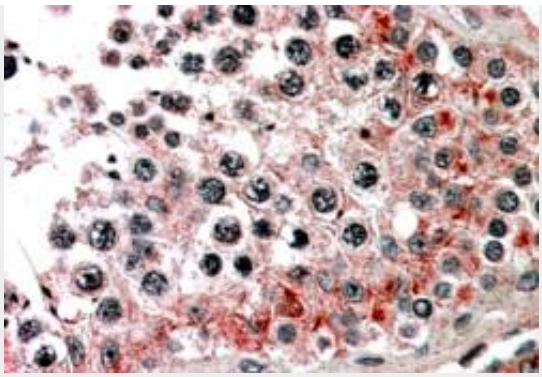
Goat Anti-ABCB9 / TAPL Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-ABCB9 / TAPL Antibody - Images

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AF1008a (3.8 µg/ml) staining of paraffin embedded Human Testis. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Goat Anti-ABCB9 / TAPL Antibody - Background

The membrane-associated protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance as well as antigen presentation. The function of this half-transporter has not yet been determined; however, this protein may play a role in lysosomes. Alternative splicing of this gene results in distinct isoforms which are likely to have different substrate specifications.

Goat Anti-ABCB9 / TAPL Antibody - References

Tuning the cellular trafficking of the lysosomal peptide transporter TAPL by its N-terminal domain. Demirel O, et al. Traffic, 2010 Mar. PMID 20377823.
Association study between single-nucleotide polymorphisms in 199 drug-related genes and commonly measured quantitative traits of 752 healthy Japanese subjects. Saito A, et al. J Hum Genet, 2009 Jun. PMID 19343046.
Functional dissection of transmembrane domains of human TAP-like (ABCB9). Kamakura A, et al. Biochem Biophys Res Commun, 2008 Dec 19. PMID 18952056.
Peptide specificity and lipid activation of the lysosomal transport complex ABCB9 (TAPL). Zhao C, et al. J Biol Chem, 2008 Jun 20. PMID 18434309.
Biochemical characterization of transporter associated with antigen processing (TAP)-like (ABCB9) expressed in insect cells. Ohara T, et al. Biol Pharm Bull, 2008 Jan. PMID 18175933.