

ABCA7 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51730**Specification**

ABCA7 Antibody - Product Information

Application	WB, E
Primary Accession	Q8IZY2
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	234 KDa

ABCA7 Antibody - Additional Information**Gene ID** 10347**Other Names**

ATP-binding cassette sub-family A member 7, ABCA-SSN, Autoantigen SS-N, Macrophage ABC transporter, ABCA7

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human ABCA7. The exact sequence is proprietary.

Dilution

WB~~1:1000

E~~N/A

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

ABCA7 Antibody - Protein Information**Name** ABCA7 ([HGNC:37](#))**Function**

Catalyzes the translocation of specific phospholipids from the cytoplasmic to the extracellular/luminal leaflet of membrane coupled to the hydrolysis of ATP (PubMed:24097981). Transports preferentially phosphatidylserine over phosphatidylcholine (PubMed:24097981). Plays a role in lipid homeostasis and macrophage- mediated phagocytosis (PubMed:12917409, PubMed:12925201, PubMed:12925201, PubMed:12925201).

[14570867](http://www.uniprot.org/citations/14570867), PubMed: [14592415](http://www.uniprot.org/citations/14592415)). Binds APOA1 and may function in apolipoprotein-mediated phospholipid efflux from cells (PubMed: [12917409](http://www.uniprot.org/citations/12917409), PubMed: [14570867](http://www.uniprot.org/citations/14570867), PubMed: [14592415](http://www.uniprot.org/citations/14592415)). May also mediate cholesterol efflux (PubMed: [14570867](http://www.uniprot.org/citations/14570867)). May regulate cellular ceramide homeostasis during keratinocyte differentiation (PubMed: [12925201](http://www.uniprot.org/citations/12925201)). Involved in lipid raft organization and CD1D localization on thymocytes and antigen-presenting cells, which plays an important role in natural killer T-cell development and activation (By similarity). Plays a role in phagocytosis of apoptotic cells by macrophages (By similarity). Macrophage phagocytosis is stimulated by APOA1 or APOA2, probably by stabilization of ABCA7 (By similarity). Also involved in phagocytic clearance of amyloid-beta by microglia cells and macrophages (By similarity). Further limits amyloid-beta production by playing a role in the regulation of amyloid-beta A4 precursor protein (APP) endocytosis and/or processing (PubMed: [26260791](http://www.uniprot.org/citations/26260791)). Amyloid-beta is the main component of amyloid plaques found in the brains of Alzheimer patients (PubMed: [26260791](http://www.uniprot.org/citations/26260791)).

Cellular Location

Cell membrane; Multi-pass membrane protein. Golgi apparatus membrane {ECO:0000250|UniProtKB:Q91V24}; Multi-pass membrane protein. Early endosome membrane {ECO:0000250|UniProtKB:Q91V24}; Multi-pass membrane protein. Cytoplasm {ECO:0000250|UniProtKB:Q91V24}. Cell projection, ruffle membrane {ECO:0000250|UniProtKB:Q91V24}. Cell projection, phagocytic cup {ECO:0000250|UniProtKB:Q91V24} Note=Localizes to cell membrane ruffles and phagocytic cups of macrophages stimulated with C1q or apoptotic cells. Localizes to the cytoplasm of resting macrophages, probably in Golgi and endosomes Localizes to the apical brush border of cells in the proximal tubules of kidney (By similarity). {ECO:0000250|UniProtKB:Q91V24}

Tissue Location

Expressed in leukocytes (at protein level) (PubMed:10873640). Widely expressed (PubMed:10873640). Highly expressed in myelo-lymphatic tissues including peripheral leukocytes, thymus, spleen and bone marrow (PubMed:10873640, PubMed:11435699). Expressed in the hippocampus and the cerebellum (PubMed:27472885). Isoform 2: Abundant in lymph node, spleen, thymus and trachea (PubMed:14592415) Isoform 1: Strongly expressed in brain and bone marrow (PubMed:14592415).

ABCA7 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 Cytometry](#)
- [Cell Culture](#)

ABCA7 Antibody - Images

ABCA7 Antibody - Background

Plays a role in phagocytosis by macrophages of apoptotic cells. Binds APOA1 and may function in apolipoprotein-mediated phospholipid efflux from cells. May also mediate cholesterol efflux. May regulate cellular ceramide homeostasis during keratinocytes differentiation.

ABCA7 Antibody - References

Kaminski W.E.,et al.Biochem. Biophys. Res. Commun. 273:532-538(2000).
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Tanaka A.R.,et al.Biochem. Biophys. Res. Commun. 283:1019-1025(2001).
Broccardo C.,et al.Cytogenet. Cell Genet. 92:264-270(2001).
Grimwood J.,et al.Nature 428:529-535(2004).