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Anti-ABCA5 Antibody

Catalog # AP50730

Product Information

Application	WB, IHC
Primary Accession	Q8WWZ7
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	186508

Additional Information

Gene ID	23461
Other Names	KIAA1888; ATP-binding cassette sub-family A member 5
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human ABCA5. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

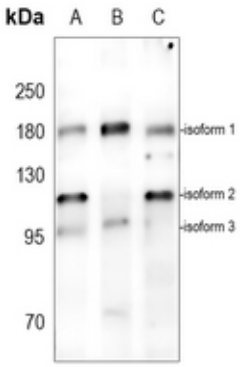
Name	ABCA5 (HGNC:35)
Synonyms	KIAA1888
Function	Cholesterol efflux transporter in macrophages that is responsible for APOAI/high-density lipoproteins (HDL) formation at the plasma membrane under high cholesterol levels and participates in reverse cholesterol transport (PubMed:25125465). May play a role in the processing of autolysosomes (By similarity).
Cellular Location	Golgi apparatus membrane {ECO:0000250|UniProtKB:Q8CF82}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q8CF82}. Lysosome membrane {ECO:0000250|UniProtKB:Q8K448}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q8K448}. Late endosome membrane {ECO:0000250|UniProtKB:Q8K448}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q8K448}. Cell membrane {ECO:0000250|UniProtKB:Q8K448}. Note=Localized at cell membrane under high cholesterol levels. {ECO:0000250|UniProtKB:Q8K448}

Tissue Location	Ubiquitously expressed. Highly expressed in testis, skeletal muscle, kidney, liver and placenta. Expressed in both the epithelial and mesenchymal compartments, present within the outer root sheath (ORS) of the hair follicle as well as dermal sheath (PubMed:24831815). Expressed in multiple regions of the brain, including the hippocampus, superior frontal and inferior temporal cortices (PubMed:25125465). Strongly expressed in neurons and moderately in microglia, with only weak expression in astrocytes and oligodendrocytes (PubMed:25125465). {ECO:0000269|PubMed:12504089, ECO:0000269|PubMed:24831815, ECO:0000269|PubMed:25125465, ECO:0000269|Ref.1}

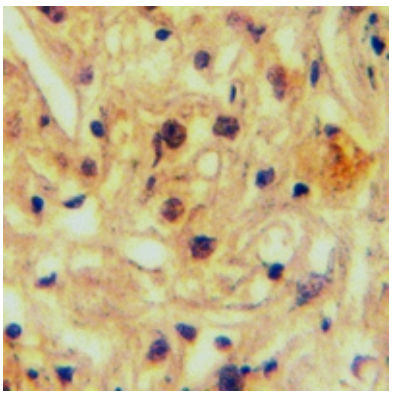
References

Arnould I.,et al.GeneScreen 1:157-164(2001).
Petry F.,et al.Biochem. Biophys. Res. Commun. 300:343-350(2003).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Nagase T.,et al.DNA Res. 8:179-187(2001).

Images



Western blot analysis of ABCA5 expression in MCF7 (A), A2780 (B), HepG2 (C) whole cell lysates. (Predicted band size: 186; 104; 99 kD; Observed band size: 186; 104; 99 kD)



Immunohistochemical analysis of ABCA5 staining in human colorectal cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.