

ABCA2 Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF2775a**Specification**

ABCA2 Antibody (internal region) - Product Information

Application	E
Primary Accession	O9BZC7
Other Accession	NP_001597.2 , NP_997698.1 , 20 , 11305 (mouse) , 79248 (rat)
Predicted Host	Human, Mouse, Rat
Clonality	Goat
Concentration	Polyclonal
Isotype	0.5 mg/ml
Calculated MW	IgG
	269833

ABCA2 Antibody (internal region) - Additional Information**Gene ID 20****Other Names**

ATP-binding cassette sub-family A member 2, ATP-binding cassette transporter 2, ATP-binding cassette 2, ABCA2, ABC2, KIAA1062

Dilution

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 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

ABCA2 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

ABCA2 Antibody (internal region) - Protein Information

Name ABCA2 ([HGNC:32](#))

Synonyms ABC2, KIAA1062

Function

Probable lipid transporter that modulates cholesterol sequestration in the late endosome/lysosome

by regulating the intracellular sphingolipid metabolism, in turn participates in cholesterol homeostasis (Probable) (PubMed:15238223, PubMed:21810484, PubMed:24201375). May alter the transbilayer distribution of ceramide in the intraluminal membrane lipid bilayer, favoring its retention in the outer leaflet that results in increased acid ceramidase activity in the late endosome/lysosome, facilitating ceramide deacylation to sphingosine leading to the sequestration of free cholesterol in lysosomes (PubMed:24201375). In addition regulates amyloid-beta production either by activating a signaling pathway that regulates amyloid precursor protein transcription through the modulation of sphingolipid metabolism or through its role in gamma-secretase processing of APP (PubMed:22086926, PubMed:26510981). May play a role in myelin formation (By similarity).

Cellular Location

Endosome membrane; Multi-pass membrane protein. Lysosome membrane; Multi-pass membrane protein. Note=Forms discrete, punctate intracellular vesicles.

Tissue Location

[Isoform 3]: Highly expressed in the brain, peripheral blood leukocytes and ovary, whereas lower levels of expression is observed in kidney and liver

ABCA2 Antibody (internal region) - 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](#)

ABCA2 Antibody (internal region) - Images

ABCA2 Antibody (internal region) - Background

This antibody is expected to recognize both reported isoforms (NP_001597.2; NP_997698.1).

ABCA2 Antibody (internal region) - References

ABCA2 is a strong genetic risk factor for early-onset Alzheimer's disease Macé S, Cousin E, Ricard S, Génin E, Spanakis E, Lafargue-Soubigou C, Génin B, Fournel R, Roche S, Haussy G, Massey F, Soubigou S, Bréfort G, Benoit P, Brice A, Campion D, Hollis M, Pradier L, Benavides J, Deleuze JF Neurobiol Dis. 2005 Feb;18(1):119-25 PMID: 15649702