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Anti-ABCG4 Antibody
Catalog # ABO11373

Specification

Anti-ABCG4 Antibody - Product Information

Application	**WB**
Primary Accession	Q9H172
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for ATP-binding cassette sub-family G member 4(ABCG4) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-ABCG4 Antibody - Additional Information

Gene ID 64137

Other Names
ATP-binding cassette sub-family G member 4, ABCG4, WHITE2

Calculated MW
71896 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Mouse, Rat, Human

Subcellular Localization
Membrane ; Multi-pass membrane protein .

Tissue Specificity
Highly expressed in brain tissues with the exception of the spinal cord. .

Protein Name
ATP-binding cassette sub-family G member 4

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence in the middle region of human ABCG4(327-341aa AVQNGLCAMAEKKSS), different from the related mouse and rat sequences by one amino acid.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage

At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities
Belongs to the ABC transporter superfamily. ABCG family. Eye pigment precursor importer (TC 3.A.1.204) subfamily.

Anti-ABCG4 Antibody - Protein Information

Name ABCG4 (HGNC:13884)

Synonyms WHITE2

Function
ATP-dependent transporter of the ATP-binding cassette (ABC) family that may be involved in the cellular efflux of sterols, in particular cholesterol and desmosterol (a cholesterol precursor), to high-density lipoprotein (HDL) (PubMed:15240127, PubMed:33141061). May play an important role in the removal of amyloid-beta peptides from brain, in a process that can be antagonized by desmosterol. However it is unclear whether ABCG4 can directly transport amyloid-beta peptides or whether peptide export may be facilitated due to changes in the membrane lipid environment (By similarity). Induces apoptosis in various cells (PubMed:27228027).

Cellular Location
Cell membrane; Multi-pass membrane protein. Cytoplasmic vesicle membrane {ECO:0000250|UniProtKB:Q91WA9}; Multi-pass membrane protein. Endosome membrane {ECO:0000250|UniProtKB:Q91WA9}; Multi- pass membrane protein

Tissue Location
Expressed specifically in the brain and the eye.

Anti-ABCG4 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

Anti-ABCG4 Antibody - Images

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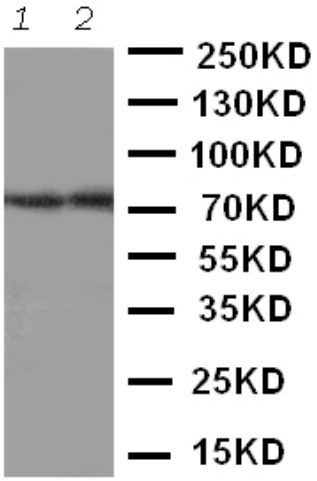

Anti-ABCG4 antibody, ABO11373, Western blottingLane 1: Rat Brain Tissue LysateLane 2: Mouse Brain Tissue Lysate

Anti-ABCG4 Antibody - Background

ABCG4(ATP-Binding Cassette, Subfamily G, Member 4), is a protein that in humans is encoded by the ABCG4 gene. The protein encoded by this gene is included in the superfamily of ATP-binding cassette(ABC) transporters. This protein is a member of the White subfamily and is expressed predominantly in liver tissue. By genomic sequence analysis, Engel et al.(2001) mapped the ABCG4 gene to chromosome 11q23.3. Engel et al.(2001) demonstrated 5-fold induction of ABCG4 following treatment of normal monocyte-derived macrophages with the LXR and RXR agonists 9-cis retinoic acid and 22R hydroxycholesterol. Removal of cholesterol from macrophages by cyclodextrin decreased ABCG4 message levels.