Datasheet for ABIN3042920

anti-ABCG4 antibody (Middle Region)

1 Image

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Overview

Quantity:	100 µg
Target:	ABCG4
Binding Specificity:	AA 327-341, Middle Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ABCG4 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-ABCG4 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human ABCG4, different from the related mouse and rat sequences by one amino acid.
Sequence:	AVQNGLCAMA EKKSS
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-ABCG4 Antibody (ABIN3042920). Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	ABCG4
Alternative Name:	ABCG4 (ABCG4 Products)
Background:	Synonyms: ATP-binding cassette sub-family G member 4,ABCG4,WHITE2, Tissue Specificity: Highly expressed in brain tissues with the exception of the spinal cord. . 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. Sequence Similarities: Belongs to the ABC transporter superfamily. ABCG family. Eye pigment precursor importer (TC 3.A.1.204) subfamily.
Molecular Weight:	280 kDa
UniProt:	Q9H172

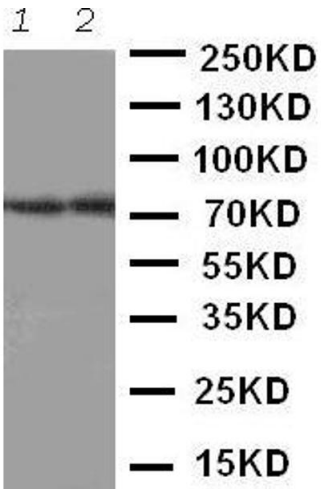
Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Mouse, Rat, Human 1. Annilo, T., Tammur, J., Hutchinson, A., Rzhetsky, A., Dean, M., Allikmets, R. Human and mouse orthologs of a new ATP-binding cassette gene, ABCG4. Cytogenet. Cell Genet. 94: 196-201, 2001. 2. Engel, T., Lorkowski, S., Lueken, A., Rust, S., Schluter, B., Berger, G., Cullen, P., Assmann, G. The human ABCG4 gene is regulated by oxysterols and retinoids in monocyte-derived macrophages. Biochem. Biophys. Res. Commun. 288: 483-488, 2001. 3. Yoshikawa, M., Yabuuchi, H., Kuroiwa, A., Ikegami, Y., Sai, Y., Tamai, I., Tsuji, A., Matsuda, Y., Yoshida, H., Ishikawa, T. Molecular and cytogenetic characterization of the mouse ATP-binding cassette transporter Abcg4. Gene 293: 67-75, 2002.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Thimerosal (Merthiolate) and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Anti-ABCG4 antibody, Western blotting Lane 1: Rat Brain Tissue Lysate Lane 2: Mouse Brain Tissue Lysate