Product Name: ABCG1 Rabbit Polyclonal Antibody
Catalog #: APRab06424

Summary

Production Name	ABCG1 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	ABCG1
Alternative Names	ABCG1; ABC8; WHT1; ATP-binding cassette sub-family G member 1; ATP-binding cassette transporter 8; White protein homolog
Gene ID	9619.0
SwissProt ID	P45844.Synthesized peptide derived from ABCG1 . at AA range: 560-640

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC-p: 1:100-300 ELISA: 1:10000..
Molecular Weight	75kD

Background

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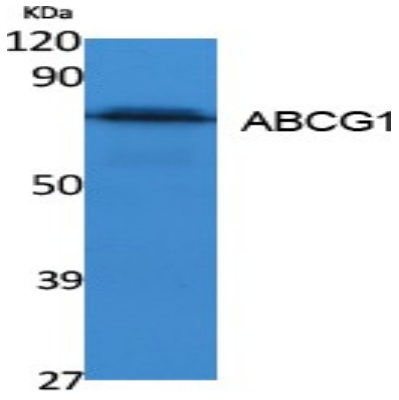
The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the White subfamily. It is involved in macrophage cholesterol and phospholipids transport, and may regulate cellular lipid homeostasis in other cell types. Six alternative splice variants have been identified. [provided by RefSeq, Jul 2008],alternative products:Additional isoforms seem to exist,disease:Overexpressed in macrophages from patients with Tangier disease compared to control macrophages. Expressed in foamy macrophages within the atherosclerotic plaque. May play a role in the cholesterol metabolism of macrophages in vitro and in the atherosclerotic plaque.,function:Transporter involved in macrophage lipid homeostasis. Is an active component of the macrophage lipid export complex. Could also be involved in intracellular lipid transport processes. The role in cellular lipid homeostasis may not be limited to macrophages.,induction:Strongly induced in monocyte-derived macrophages during cholesterol influx. Conversely, mRNA and protein expression are suppressed by lipid efflux. Induction is mediated by the liver X receptor/retinoid X receptor (LXR/RXR) pathway. Not induced by bacterial lipopolysaccharides (LPS). Repressed by ZNF202.,similarity:Belongs to the ABC transporter family. ABCG (White) subfamily.,similarity:Contains 1 ABC transmembrane type-2 domain.,similarity:Contains 1 ABC transporter domain.,subcellular location:Predominantly localized in the intracellular compartments mainly associated with the endoplasmic reticulum (ER) and Golgi membranes.,subunit:May form heterodimers with several heterologous partners of the ABCG subfamily.,tissue specificity:Expressed in several tissues.,

Research Area

ABC transporters;

Image Data



Western Blot analysis of extracts from K562 cells, using ABCG1 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

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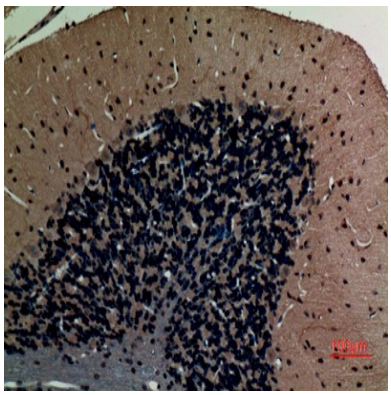
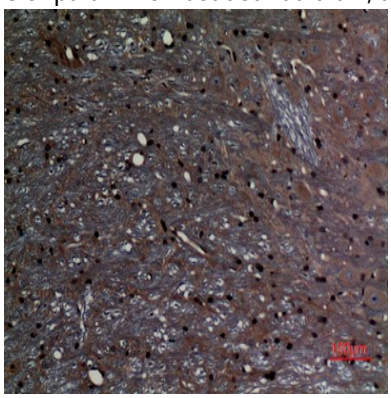


Immunohistochemical analysis of paraffin-embedded rat-brain, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded rat-brain, antibody was diluted at 1:100

Note

For research use only.