



ABCG1 Monoclonal Antibody

Catalog No	YP-mAb-00759
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	ABCG1
Immunogen	Synthesized peptide derived from ABCG1 . at AA range: 560-640
Specificity	ABCG1 Monoclonal Antibody detects endogenous levels of ABCG1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ABCG8;ATP-binding cassette sub-family G member 1;ATP-binding cassette transporter 8;EC:7.6.2.-;ABCG1;WHT1;White protein homolog
Observed Band	75kD
Calculated Molecular Weight	75kD
Cell Pathway	Endoplasmic reticulum membrane ; Multi-pass membrane protein . Golgi apparatus membrane ; Multi-pass membrane protein . Cell membrane . Predominantly localized in the intracellular compartments mainly associated with the endoplasmic reticulum (ER) and Golgi membranes.
Tissue Specificity	Expressed in several tissues. Expressed in macrophages; expression is increased in macrophages from patients with Tangier disease.
Function	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). Repress

Background

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],

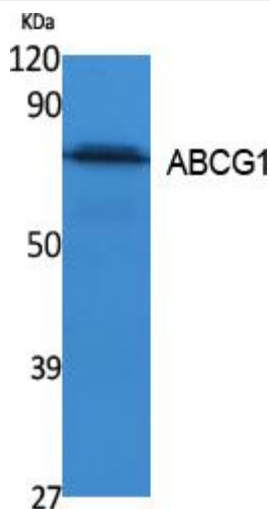
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using ABCG1 Monoclonal Antibody