

Rabbit MDR3 Polyclonal Antibody | anti-MDR3 antibody

MDR3 Antibody

CATALOG # AAA328615	HOST Rabbit	REACTIVITY Human, MousePredicted: Pig, Bovine, Rabbit, Dog	APPLICATIONS Western Blot
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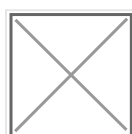
PRODUCT SYNONYMS

MDR3; Polyclonal Antibody; MDR3 Antibody; ABC 21; ABC B4; ABC21; ABCB 4; Abcb4; ABCB4 protein; ATP binding cassette sub family B MDR/TAP member 4; ATP binding cassette sub family B member 4; ATP-binding cassette sub-family B member 4; GBD1; ICP3; MDR 3; MDR2; MDR2/3; MDR3 P glycoprotein; MDR3 P gp; MDR3_HUMAN; Multidrug resistance protein 3; Multiple drug resistance 3; P glycoprotein 3; P-glycoprotein 3; PFIC 3; PFIC3; PGY 3; PGY3; anti-MDR3 antibody

PRODUCT SPECIFICATIONS

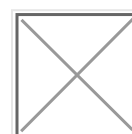
Host	Rabbit
Reactivity	Human, Mouse Predicted: Pig, Bovine, Rabbit, Dog
Clonality	Polyclonal
Isotype	IgG
Specificity	MDR3 Antibody detects endogenous levels of MDR3.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid; Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1286
Applicable Applications for anti-MDR3 antibody	WB (Western Blot)
Immunogen	A synthesized peptide derived from human MDR3.
Tissue Specificity	Up-regulated by PPARA (PubMed:24122873). Up-regulated by compounds that cause peroxisome proliferation, such as fenofibrate (at protein level). Up-regulated by bezafibrate (PubMed:15258199). Up-regulated by compounds that cause peroxisome proliferation, such as fenofibrate, bezafibrate and gemfibrozil (PubMed:24122873).
Fragment	Fab Fragment
Conjugate	Unconjugated
Subcellular Location	Plasma Membrane
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from MCF7 cells, using MDR3 Antibody. The lane on the left was treated with blocking peptide.



WB (Western Blot)

Western blot analysis of extracts from 3T3, using MDR3 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-MDR3 antibody	Description: Energy-dependent phospholipid efflux translocator that acts as a positive regulator of biliary lipid secretion. Functions as a floppase that translocates specifically phosphatidylcholine (PC) from the inner to the outer leaflet of the canalicular membrane bilayer into the canaliculi of hepatocytes. Translocation of PC makes the biliary phospholipids available for extraction into the canaliculi lumen by bile salt mixed micelles and therefore protects the biliary tree from the detergent activity of bile salts (PubMed:7957936, PubMed:8898203, PubMed:9366571, PubMed:17523162, PubMed:23468132, PubMed:24806754, PubMed:24723470, PubMed:24594635, PubMed:21820390). Plays a role in the recruitment of phosphatidylcholine (PC), phosphatidylethanolamine (PE) and sphingomyelin (SM) molecules to nonraft membranes and to further enrichment of SM and cholesterol in raft membranes in hepatocytes (PubMed:23468132). Required for proper phospholipid bile formation (By similarity). Indirectly involved in cholesterol efflux activity from hepatocytes into the canalicular lumen in the presence of bile salts in an ATP-dependent manner (PubMed:24045840). Promotes biliary phospholipid secretion as canaliculi-containing vesicles from the canalicular plasma membrane (PubMed:9366571, PubMed:28012258). In cooperation with ATP8B1, functions to protect hepatocytes from the deleterious detergent activity of bile salts (PubMed:21820390). Does not confer multidrug resistance (By similarity). Post Translational Modifications: Phosphorylated (PubMed:24723470). Phosphorylation on Thr-34 is required for PC efflux activity. Phosphorylation occurs on serine and threonine residues in a protein kinase A- or C-dependent manner (PubMed:24723470). May be phosphorylated on Thr-44 and Ser-49 (PubMed:24723470). Glycosylated (PubMed:17523162, PubMed:24723470, PubMed:21820390). Subunit Structure: May interact with RACK1 (PubMed:19674157). Interacts with HAX1 (By similarity). Similarity: Belongs to the ABC transporter superfamily. ABCB family. Multidrug resistance exporter (TC 3.A.1.201) subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	126302568
NCBI GeneID	5244
UniProt Accession #	P21439
Molecular Weight	Observed: 142 kDa Predicted: 142 kDa
NCBI Official Full Name	Phosphatidylcholine translocator ABCB4
NCBI Official Synonym Full Names	ATP binding cassette subfamily B member 4
NCBI Official Symbol	ABCB4
NCBI Official Synonym Symbols	GBD1; ICP3; MDR2; MDR3; PGY3; ABC21; MDR2/3; PFIC-3
NCBI Protein Information	phosphatidylcholine translocator ABCB4
UniProt Protein Name	Multidrug resistance protein 3
UniProt Gene Name	ABCB4
UniProt Synonym Gene Names	MDR3; PGY3
UniProt Entry Name	MDR3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.