ARG67069
anti-MDR1 / P Glycoprotein 1 antibody [SQab30342]

Package: 100 µl
Store at: -20°C

Summary

Product Description	Recombinant Rabbit Monoclonal antibody [SQab30342] recognizes MDR-1
Tested Reactivity	Hu
Tested Application	IHC-P
Host	Rabbit
Clonality	Monoclonal
Clone	SQab30342
Isotype	IgG
Target Name	MDR1 / P Glycoprotein 1
Species	Human
Immunogen	Recombinant protein fragment of MDR1 / P Glycoprotein 1
Conjugation	Un-conjugated
Alternate Names	ABCB1; ATP Binding Cassette Subfamily B Member 1; PGY1; Multidrug Resistance Protein 1; CD243; GP170; ABC20; P-170; MDR1; ATP-Binding Cassette, Sub-Family B (MDR/TAP), Member 1; ATP-Dependent Translocase ABCB1; Phospholipid Transporter ABCB1; Colchicin Sensitivity; P-Glycoprotein 1; P-Gp; CLCS; ATP-Binding Cassette Sub-Family B Member 1; Doxorubicin Resistance; P-Glycoprotein; CD243 Antigen; EC 3.6.3.44; EC 7.6.2.2; EC 7.6.2.1; EC 3.6.3; P-GP

Application Instructions

Application table

Application	Dilution
IHC-P	1:100-1:200

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

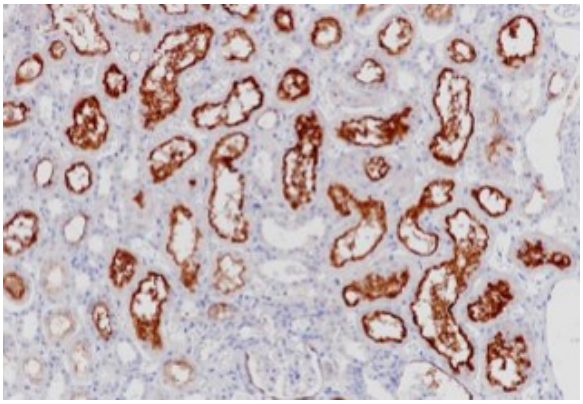
Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.
Preservative	0.01% Sodium azide
Stabilizer	40% Glycerol and 0.05% BSA
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	ABCB1
Gene Full Name	ATP-binding cassette, sub-family B (MDR/TAP), member 1
Background	The membrane-associated 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 MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance. The protein encoded by this gene is an ATP-dependent drug efflux pump for xenobiotic compounds with broad substrate specificity. It is responsible for decreased drug accumulation in multidrug-resistant cells and often mediates the development of resistance to anticancer drugs. This protein also functions as a transporter in the blood-brain barrier. Mutations in this gene are associated with colchicine resistance and Inflammatory bowel disease 13. Alternative splicing and the use of alternative promoters results in multiple transcript variants. [provided by RefSeq, Feb 2017]
Function	Catalyzes the flop of phospholipids from the cytoplasmic to the exoplasmic leaflet of the apical membrane. Participates mainly to the flop of phosphatidylcholine, phosphatidylethanolamine, beta-D-glucosylceramides and sphingomyelins. [UniProt]
Calculated Mw	141 kDa
PTM	Glycoprotein, Phosphoprotein. [UniProt]
Cellular Localization	Cell membrane, Cytoplasm, Membrane. [UniProt]

Images



ARG67069 anti-MDR1 / P Glycoprotein 1 antibody [SQab30342] IHC-P image

Immunohistochemistry: Human breast cancer stained with ARG67069 anti-MDR1 / P Glycoprotein 1 antibody [SQab30342] at 1:100 dilution.