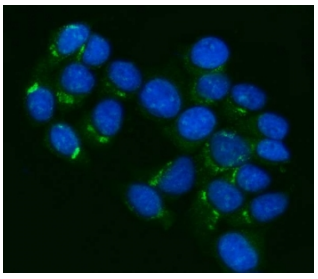
ABCB1 Antibody / P Glycoprotein / MDR1 (RQ6755)

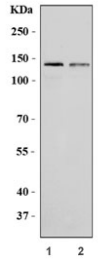
Catalog No.	Formulation	Size
RQ6755	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

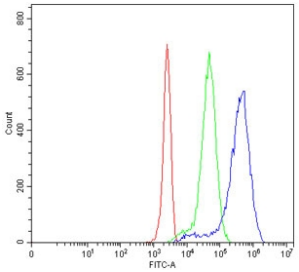
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P08183
Applications	Western blot: 1-2ug/ml Immunofluorescence (FFPE): 5ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This ABCB1 antibody is available for research use only.



Immunofluorescent staining of FFPE human MCF7 cells with ABCB1 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human 1) HepG2 and 2) Caco-2 cell lysate with ABCB1 antibody. Expected molecular weight: 141-180 kDa depending on glycosylation level.



Flow cytometry testing of human 293T cells with ABCB1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= ABCB1 antibody.

Description

P-GP, also called ABCB1, MDR1 and PGY1, is a glycoprotein that in humans is encoded by the ABCB1 gene. It is mapped to 7q21.12. P-GP is a well-characterized ABC-transporter (which transports a wide variety of substrates across extra- and intracellular membranes) of the MDR/TAP subfamily. It is an important protein of the cell membrane that pumps many foreign substances out of cells. More formally, it is an ATP-dependent drug efflux pump with broad substrate specificity. P-GP is an ATP-dependent drug efflux pump forxenobiotic 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 bloodÃ¯Â¿Â½brain barrier.

Application Notes

Optimal dilution of the ABCB1 antibody should be determined by the researcher.

Immunogen

Amino acids TKEALDESIPPVSFWRIMK from the human protein were used as the immunogen for the ABCB1 antibody.

Storage

After reconstitution, the ABCB1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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