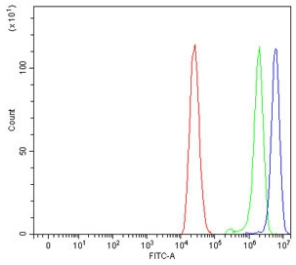
P Glycoprotein Antibody / MDR1 / ABCB1 (RQ6915)

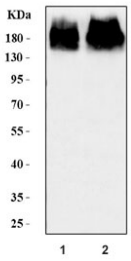
Catalog No.	Formulation	Size
RQ6915	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

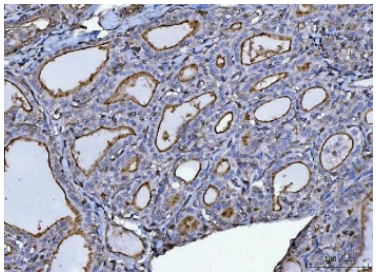
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P08183
Localization	Cytoplasm, cell membrane
Applications	Western blot: 0.5-1 ug/ml Flow cytometry: 1-3ug/million cells Immunohistochemistry (FFPE): 2-5ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This P Glycoprotein antibody is available for research use only.



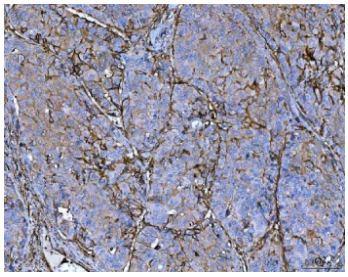
Flow cytometry testing of human Caco-2 cells with P Glycoprotein antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= P Glycoprotein antibody.



Western blot testing of human 1) DLD1 and 2) HUH-7 cell lysate with P Glycoprotein antibody. Expected molecular weight: 141-180 kDa depending on glycosylation level.



IHC staining of FFPE human thyroid cancer tissue with P Glycoprotein antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human liver cancer tissue with P Glycoprotein antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

Description

P-GP, also called ABCB1 or 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 blood-brain barrier.

Application Notes

Optimal dilution of the P Glycoprotein antibody should be determined by the researcher.

Immunogen

Recombinant human P Glycoprotein/ABCB1 protein (amino acids M1-E690) was used as the immunogen for the P Glycoprotein antibody.

Storage

After reconstitution, the P Glycoprotein 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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