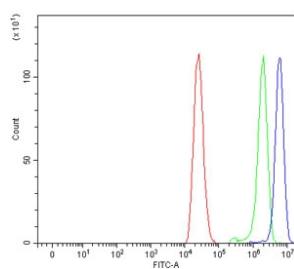


## P Glycoprotein Antibody / MDR1 / ABCB1 (RQ6915)

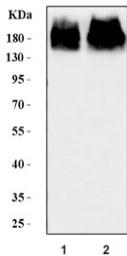
Catalog No.	Formulation	Size
RQ6915	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

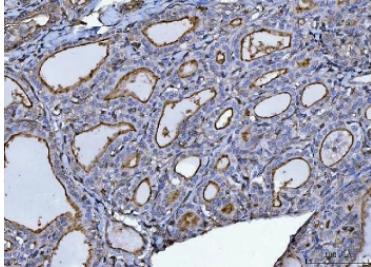
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose
<b>UniProt</b>	P08183
<b>Localization</b>	Cytoplasm, cell membrane
<b>Applications</b>	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
<b>Limitations</b>	This P Glycoprotein antibody is available for research use only.



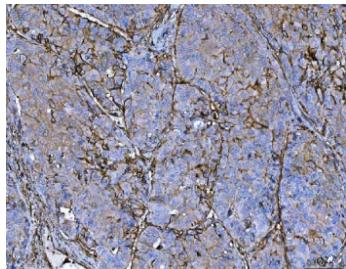
Flow cytometry testing of human Caco-2 cells with P Glycoprotein antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= P Glycoprotein antibody.



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 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.

## 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 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

