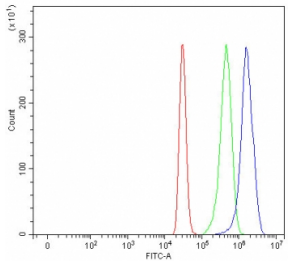
MRP3 Antibody Rabbit Polyclonal / Multidrug resistance-associated protein 3 (RQ8175)

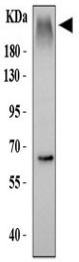
Catalog No.	Formulation	Size
RQ8175	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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	O15438
Applications	Western blot: 0.5-1ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This MRP3 antibody is available for research use only.



Flow cytometry testing of fixed and permeabilized human HepG2 cells with MRP3/ABCC3 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= MRP3 antibody.



Western blot testing of human HepG2 cell lysate with MRP3/ABCC3 antibody. Predicted molecular weight ~169 kDa but may be observed at higher molecular weights due to glycosylation.

Description

MRP3 antibody recognizes Multidrug resistance-associated protein 3, a transmembrane efflux transporter encoded by the ABCC3 gene. Also known as ATP-binding cassette subfamily C member 3 and ABCC3, MRP3 belongs to the ABC transporter family and functions as an ATP-dependent export pump for organic anions and conjugated metabolites. MRP3 antibody is widely used in research investigating hepatobiliary transport, xenobiotic clearance, and mechanisms of multidrug resistance.

MRP3 is predominantly localized to the basolateral membrane of hepatocytes, as well as epithelial cells in the intestine, pancreas, and kidney. Structurally, ABCC3 contains two nucleotide-binding domains and multiple transmembrane helices typical of ABC transporters. The protein facilitates the export of glucuronide, sulfate, and glutathione conjugates, including bile acids and bilirubin metabolites, from cells into the bloodstream. In cholestatic conditions or when canalicular transporters are impaired, MRP3 expression is often upregulated as a compensatory mechanism to maintain bile acid homeostasis.

Altered ABCC3 expression has been reported in inflammatory liver disease, cholestasis, and several malignancies. Increased MRP3 levels have also been associated with resistance to certain chemotherapeutic agents due to enhanced drug efflux capacity. Immunostaining typically demonstrates membranous localization in epithelial tissues, consistent with its role as a plasma membrane transporter. This rabbit polyclonal MRP3 antibody is suitable for detecting ABCC3 in research applications focused on drug metabolism, transporter biology, and hepatic pathophysiology.

Application Notes

Optimal dilution of the MRP3 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids H22-G1351) was used as the immunogen for the MRP3 antibody.

Storage

After reconstitution, the MRP3 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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