

Anti-P Glycoprotein/ABCB1 Antibody

Catalog Number: RP1034

About TP53

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.

Overview

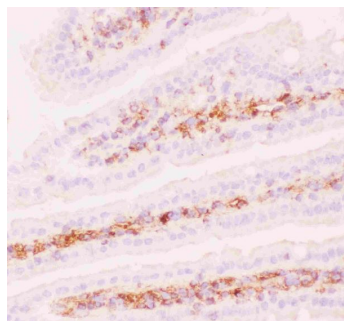
Product Name	Anti-P Glycoprotein/ABCB1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-P Glycoprotein/ABCB1 Antibody catalog # RP1034. Tested in IHC applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P08183

Technical Details

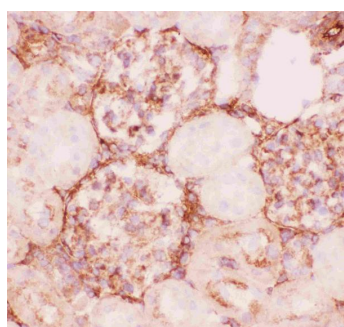
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human P Glycoprotein, different from the related rat sequence by twelve amino acids.
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and IHC(F).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Immunohistochemistry (Frozen Section), 0.5-1ug/ml, Mouse, Rat, -</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat, By Heat</p>

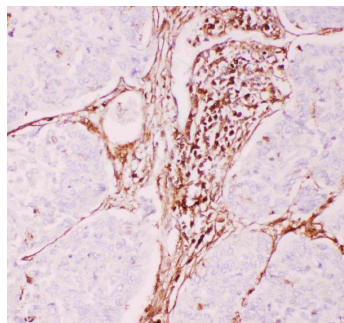
Anti-P Glycoprotein/ABCB1 Antibody (RP1034) Images



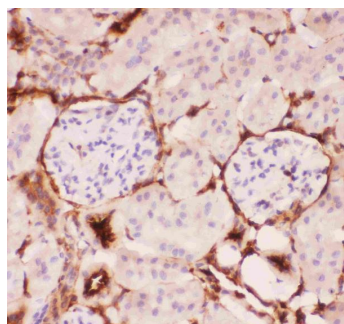
Anti-P Glycoprotein Picoband antibody, RP1034-1.JPG
IHC(F): Mouse Intestine Tissue



Anti-P Glycoprotein Picoband antibody, RP1034-2.JPG
IHC(F): Rat Kidney Tissue

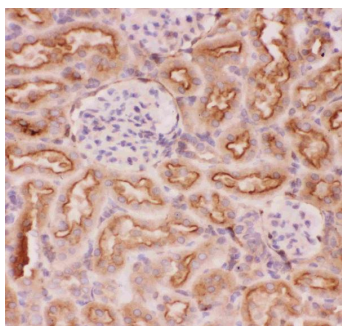


Anti-P Glycoprotein Picoband antibody, RP1034-3.JPG
IHC(P): Human Lung Cancer Tissue



Anti-P Glycoprotein Picoband antibody, RP1034-4.JPG
IHC(P): Mouse Kidney Tissue

Anti-P Glycoprotein Picoband antibody, RP1034-5.JPG
IHC(P): Rat Kidney Tissue



32 Publications Citing This Product

1. PubMed ID: -, Panchamia, Shail. (2020). To Investigate The Impact Of Gut Bacteria On Efflux Transporter Expression And Function In Gastrointestinal Mucosae. Retrieved from the University of Minnesota Digital Conservancy, <https://hdl.handle.net/11299/215018>.
2. PubMed ID: 26439224, Expression of TP53, BCL-2, and VEGFA Genes in Esophagus Carcinoma and its Biological Significance
3. PubMed ID: 25395712, Li W, Wu D, Wei B, Wang S, Sun H, Li X, Zhang F, Zhang C, Xin Y. Afr J Tradit Complement Altern Med. 2014 Aug 23;11(5):99-104. Ecollection 2014. Anti-Tumor Effect Of Cactus Polysaccharides On Lung Squamous Carcinoma Cells (Sk-Mes-1).

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