

Anti-P-GlycoProtein(MDR) Antibody (Monoclonal, F4)

Catalog Number: MA1060

Description

Gene Name	ATP-binding cassette, sub-family B(MDR/TAP), member 1
Protein Name	Multidrug resistance protein 1
Size	100µg/vial
Form	Lyophilized
Ig Type	Mouse IgG1
Purification	Ascites
Species	Human
Immunogen	Mixture of human and hamster drug-resistant whole cells and crude plasma membranes.
Contents	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative.
Clonality	Monoclonal
Clone Number	F4

Applications

	Concentration	Tested Species	Predicted Species	Antigen Retrieval
Western blot	0.5-1µg/ml	Human	-	
Immunohistochemistry(Paraffin-embedded Section)	1-2µg/ml	Human	-	By Heat
Immunohistochemistry(Frozen Section)	1-2µg/ml	Human	-	
Immunocytochemistry	1µg/ml	Human	-	

AMSBIO | www.amsbio.com | info@amsbio.com

 **UK & Rest of the World**
184 Park Drive, Milton Park
Abingdon OX14 4SE, UK
T: +44 (0)1235 828 200
F: +44 (0) 1235 820 482

 **North America**
1035 Cambridge Street,
Cambridge, MA 02141
T: +1 (617) 945-5033 or
T: +1 (800) 987-0985
F: +1 (617) 945-8218

 **Germany**
Bockenheimer Landstr. 17/19
60325 Frankfurt/Main
T: +49 (0) 69 779099
F: +49 (0) 69 13376880

 **Switzerland**
Centro Nord-Sud 2E
CH-6934 Bioggio-Lugano
T: +41(0) 91 604 55 22
F: +41(0) 91 605 17 85

Preparation and storage

~~Other applications have not been tested~~

Reconstitution:

Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

~~Storage dilutions should be determined by user~~

At -20°C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Relevant detection systems

AMSBIO recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for IHC(P), IHC(F) and ICC.

Background

P-Glycoprotein,, also known as Multidrug Resistance 1(MDR1), is one of the ATP-binding cassette transporters family. P-glycoprotein-1 is involved in the transport of 3 of these protease inhibitors in vitro. MDR1 gene is mapped to the 7q21.1 by in situ hybridization. The MDR1 gene product, P-glycoprotein, mediates the transport of the cardiac glycoside, digoxin.

Publications

Gao S, Liu Q, Wang X, Lin B, Zhang S. Med Oncol. 2010 Sep;27(3):960-7. Doi: 10.1007/S12032-009-9317-6. Epub 2009 Sep 23. Effects Of Lewis Y Antigen On The Gene Expression Of Multiple Drug Resistance-Associated Proteins In Human Ovarian Cancer Rmg-...

[PubMed ID19771531](#)

Wang X, Deng R, Lu Y, Xu Q, Yan M, Ye D, Chen W. Basic Clin Pharmacol Toxicol. 2013 Jan;112(1):25-33. Doi: 10.1111/J.1742-7843.2012.00921.X. Epub 2012 Aug 22. Gambogic Acid As A Non-Competitive Inhibitor Of Atp-Binding Cassette Transporter B1 Reve...

[PubMed ID22759348](#)