

Product Datasheet

MRP1 Antibody (MRPm5) NBP1-42341

Unit Size: 0.2 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-42341**MRP1 Antibody (MRPm5)**

Product Information	
Unit Size	0.2 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	MRPm5
Preservative	0.1% Sodium Azide
Isotype	IgG2a
Purity	Tissue culture supernatant
Buffer	Tissue culture supernatant

Product Description	
Host	Mouse
Gene ID	4363
Gene Symbol	ABCC1
Species	Human
Reactivity Notes	Human
Specificity/Sensitivity	MRPm5 reacts with an internal epitope of MRP1, a 180-195 kD transmembrane transporter protein overexpressed in various human non-P-glycoprotein MDR tumor cell lines. MRPm5 was raised against a bacterial fusion protein of MRP1, containing amino acids 986-1204 of the protein. MRPm5 does not cross-react with the human MDR1 and MDR3 gene products.
Immunogen	The antibody reacts with the MRP1 antigen.

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:100-1:2000, Flow Cytometry 1:10-1:1000, Immunohistochemistry 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500
Application Notes	MRPm5 has potential value for detection of MRP MDR in human tumor samples. Immunocytochemistry: use 1:20-50 dil. on acetone or paraformaldehyde (4% in PBS) fixed cytopsin preparations. For immunohistochemistry: MRPm5 (use 1:20) on acetone fixed frozen sections can be followed by incubation with rabbit anti-mouse IgG (1:25) and a monoclonal mouse APAAP complex (1:50). MRPm5 can also be used on formaldehyde-fixed paraffin-embedded human tissues and tumours, after pretreatment with 0.01 M citric acid (pH 6.0) in distilled water at 100 C for 10 min. Flow cytometry: use 1:20-50 dil. after fixing cells in 10% Lysing solution in H ₂ O, and anti-mouse-FITC. Western blotting: use 1:20-50 dil, and anti-mouse-HRP.



Publications

Kurihara Y, Sawazumi T, Takeuchi T. Exploration of interactions between membrane proteins embedded in supported lipid bilayers and their antibodies by reflectometric interference spectroscopy-based sensing. *Analyst*. 2014-10-15 [PMID: 25270526] (Human)

Details:

MRP1 antibody used for detection of Human MRP1 vesicles via microfluidic reflectometric interference spectroscopy (RIfS)-based sensor.



Novus Biologicals USA

10730 E. Briarwood Avenue

Centennial, CO 80112

USA

Phone: 303.730.1950

Toll Free: 1.888.506.6887

Fax: 303.730.1966

nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave

Toronto, ON M8Z 4E6

Canada

Phone: 905.827.6400

Toll Free: 855.668.8722

Fax: 905.827.6402

canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane

Abingdon Science Park

Abingdon, OX14 3NB, United Kingdom

Phone: (44) (0) 1235 529449

Free Phone: 0800 37 34 15

Fax: (44) (0) 1235 533420

info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com

Technical Support: nb-technical@bio-techne.com

Orders: nb-customerservice@bio-techne.com

General: novus@novusbio.com

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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