Product Datasheet

MRP1 Antibody (IU2H10) - BSA Free
NB400-156-0.1ml

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Publications: 17

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
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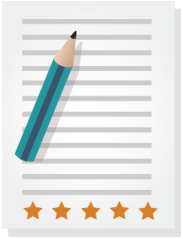
Updated 9/9/2025 v.20.1



NB400-156-0.1ml

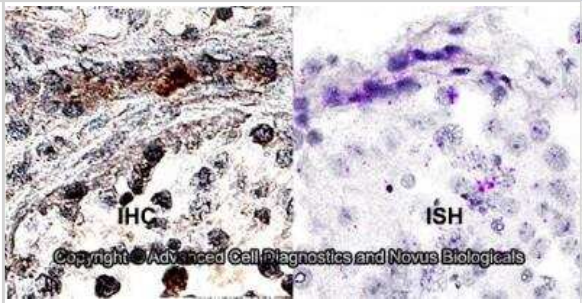
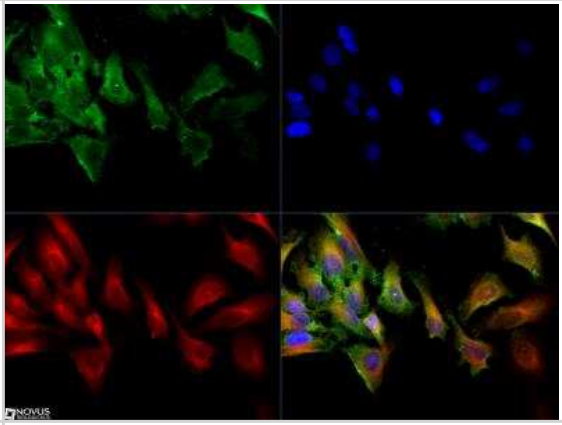
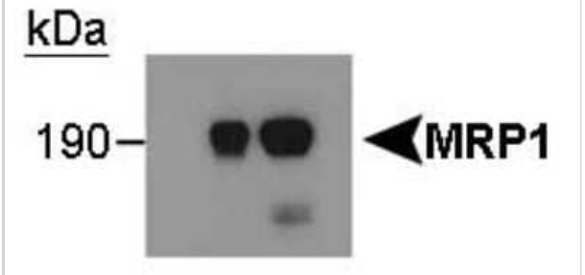
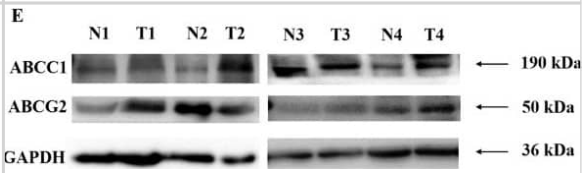
MRP1 Antibody (IU2H10) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	IU2H10
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS

Product Description	
Description	Novus Biologicals Mouse MRP1 Antibody (IU2H10) - BSA Free (NB400-156) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow, Dual RNAscope ISH-IHC, ICC/IF, Simple Western and IP. Anti-MRP1 Antibody: Cited in 16 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	4363
Gene Symbol	ABCC1
Species	Human, Mouse, Rat
Immunogen	Recombinant peptide (a.a. 1-33) of human MRP1. [UniProt# P33527].

Product Application Details	
Applications	Western Blot, Simple Western, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, CyTOF-ready, Dual RNAscope ISH-IHC
Recommended Dilutions	Western Blot 1:500, Simple Western, Flow Cytometry reported in scientific literature, ELISA reported in scientific literature, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:50-1:200, Immunoprecipitation reported in scientific literature, CyTOF-ready, Dual RNAscope ISH-IHC
Application Notes	In Western blot a band was observed at ~170-190 kDa in transfected samples. There may be a lower MW band that is a degradation product. This antibody is CyTOF ready. See Simple Western Antibody Database for Simple Western validation: Tested in brain; separated by size; antibody dilution of 1:100.

Images

Dual RNAscope ISH-IHC: MRP1 Antibody (IU2H10) [NB400-156] - Formalin-fixed paraffin-embedded tissue sections of human testis were probed for MRP1 mRNA (ACD RNAScope Probe, catalog # 435591; Fast Red chromogen, ACD catalog # 322360). Adjacent tissue section was processed for immunohistochemistry using mouse monoclonal (Novus Biologicals catalog # NB400-156) at 7ug/mL with overnight incubation at 4 degrees Celsius followed by incubation with anti-mouse IgG VisUCyte HRP Polymer Antibody (Catalog # VC001) and DAB chromogen (yellow-brown). Tissue was counterstained with hematoxylin (blue). Specific staining was localized to Leydig cells and seminiferous tubule cells.	
Immunocytochemistry/Immunofluorescence: MRP1 Antibody (IU2H10) [NB400-156] - The MRP-1 antibody was tested in HeLa cells at a 1:50 dilution against Dylight 488 (Green). Alpha tubulin and nuclei were counterstained against Dylight 550 (Red) and DAPI (Blue), respectively.	
Western Blot: MRP1 Antibody (IU2H10) [NB400-156] - Vector-transfected HEK293 cells 2: MRP1-transfected cells, prep1 3: MRP1-transfected cells, prep2 (the lower band is a degradation product.)	
(A–D) Gene expression of drug transporters in breast cancer patients (A) ABCC1, (B) ABCG2 in local cohort (C) ABCC1, (D) ABCG2 in TCGA cohort and (E–G) Protein expression of drug transporters (E) Representative blots in adjacent normal (N) and tumor (T) tissues, (F) Densitometric analysis of ABCG2 and (G) ABCC1 levels in adjacent normal and tumor tissues. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/36309544), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Publications

Zhang, W;Liu, QY;Haqqani, AS;Liu, Z;Sodja, C;Leclerc, S;Baumann, E;Delaney, CE;Brunette, E;Stanimirovic, DB; Differential Expression of ABC Transporter Genes in Brain Vessels vs. Peripheral Tissues and Vessels from Human, Mouse and Rat Pharmaceutics 2023-05-22 [PMID: 37242805] (Simple Western, Mouse, Rat, Human)

Doganlar O, Doganlar ZB, Erdogan S, Delen E Antineoplastic multi-drug chemotherapy to sensitize tumors triggers multi-drug resistance and inhibits efficiency of maintenance treatment inglioblastoma cells EXCLI journal 2023-01-04 [PMID: 36660193] (WB, Human)

Bhadwal P, Randhawa V, Vaiphei K et al. Clinical relevance of CERK and SPHK1 in breast cancer and their association with metastasis and drug resistance Scientific reports 2022-10-29 [PMID: 36309544] (WB, Human)

Details:
Dilution used in WB 1:1000

Huang R, Zhu L, Zhang Y XIST lost induces ovarian cancer stem cells to acquire taxol resistance via a KMT2C-dependent way Cancer cell international 2020-09-04 [PMID: 32943985] (WB, Human)

Sridharan S, Robeson M, Bastihalli-Tukaramrao D, et al. Targeting of the Eukaryotic Translation Initiation Factor 4A Against Breast Cancer Stemness Front Oncol 2019-12-06 [PMID: 31867270] (WB, Human)

Datta S, Sinha D EGCG maintained Nrf2-mediated redox homeostasis and minimized EPE resistance in lung cancer cells Journal of Functional Foods 2019-11-01

Zhang S, Chatterjee T, Godoy C et al. GPR56 drives colorectal tumor growth and promotes drug resistance through upregulation of MDR1 expression via a RhoA-mediated mechanism Mol. Cancer Res. 2019-08-23 [PMID: 31444231] (WB, Human)

Li K, Ouyang L, He M et al. IDH1 R132H mutation regulates glioma chemosensitivity through Nrf2 pathway. Oncotarget 2017-04-25 [PMID: 28427200] (WB, Human)

Koshkin V, Ailles LE, Liu G, Krylov SN. Metabolic suppression of a drug resistant subpopulation in cancer spheroid cells J. Cell. Biochem. 2015-06-06 [PMID: 26054050] (FLOW, Human)

Grybauskas A, Koga T, Kuprys PV et al. ABCB1 transporter and Toll-like receptor 4 in trabecular meshwork cells. Mol. Vis. 2015-03-24 [PMID: 25802484] (WB, Rat, Mouse, Human)

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.

Chen YY, Lukka PB, Joseph WR et al. Selective cellular uptake and retention of SN 28049, a new DNA-binding topoisomerase II-directed antitumor agent. Cancer Chemother. Pharmacol. 2014-05-07 [PMID: 24801172] (ICC/IF, Mouse)

More publications at http://www.novusbio.com/NB400-156

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Products Related to NB400-156-0.1ml

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis.
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