

MRP2 Monoclonal Antibody (M2III-5)

Catalog NumberMA1-35678

Product data sheet

Details		Species Reactivity	
Size	1 mL	Species reactivity	Human, Mouse, Rat
Host/Isotope	Mouse / IgG2b	Tested Applications	Dilution *
Class	Monoclonal		
Type	Antibody		
Clone	M2III-5		
Immunogen	fusion protein of bacterial MBP and rat Mrp2, containing the 202-amino acid COOH terminal end		
Conjugate	Unconjugated	Immunohistochemistry (Frozen) (IHC (F))	1:20
Form	Liquid	Immunohistochemistry (Paraffin) (IHC (P))	1:20
Concentration	250 µg/mL	Western Blot (WB)	1:20-1:50
Storage buffer	tissue culture supernatant with 0.7% BSA	Immunocytochemistry (ICC/IF)	1:20-1:50
Contains	0.1% sodium azide	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Storage Conditions	4° C		

Product specific information

For immunohistochemistry (paraffin) applications, it is recommended to pretreat antibody with 0.01 M citric acid, pH 6.0, in distilled water at 100°C 3 times for 5 minutes.

Background/Target Information

This gene encodes the prototype of the membrane-associated guanylate kinase (MAGUK) family proteins. MAGUKs interact with the cytoskeleton and regulate cell proliferation, signaling pathways, and intercellular junctions. The encoded protein is an extensively palmitoylated membrane phosphoprotein containing a PDZ domain, a Src homology 3 (SH3) motif, and a guanylate kinase domain. This gene product interacts with various cytoskeletal proteins and cell junctional proteins in different tissue and cell types, and may be involved in the regulation of cell shape, hair cell development, neural patterning of the retina, and apico-basal polarity and tumor suppression pathways in non-erythroid cells. Multiple transcript variants encoding different isoforms have been found for this gene.

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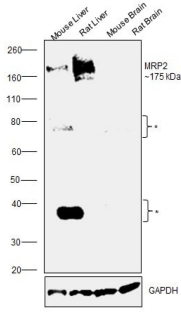
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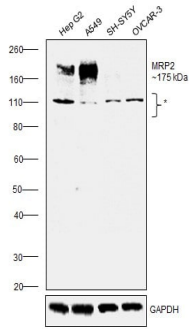
MRP2 Antibody (MA1-35678) in WB

Western blot was performed using Anti-MRP2 Mouse Monoclonal Antibody (Product # MA1-35678) and 175 kDa band corresponding to MRP2 was observed except in Mouse and Rat Brain, along with uncharacterized bands across tissues tested. Tissue extracts (30 µg lysate) of Mouse Liver (Lane 1), Rat Liver (Lane 2), Mouse Brain (Lane 3) and Rat Brain (Lane 4) were electrophoresed using Novex® NuPAGE® 4-12% Bis-Tris gel (Product # NP0342BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by XCell SureLock™ Mini-Cell and XCell II™ Blot Module (Product # EI0002). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005). (Ref : 33:947-955, 2005).



MRP2 Antibody (MA1-35678) in WB

Western blot was performed using Anti-MRP2 Mouse Monoclonal Antibody (Product # MA1-35678) and 175 kDa band corresponding to MRP2 was observed except in SH-SY5Y and OVACR-3, along with uncharacterized bands (*) across the cell lines tested. Membrane Enriched extracts (30 µg lysate) of Hep G2 (Lane 1), A549 (Lane 2), SH-SY5Y (Lane 3) and OVACR-3 (Lane 4) were electrophoresed using Novex® NuPAGE® 4-12% Bis-Tris gel (Product # NP0342BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) XCell SureLock™ Mini-Cell and XCell II™ Blot Module (Product # EI0002). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



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