Mouse anti-Human MRP3 (Multidrug Resistance-Associated Protein 3) Monoclonal Antibody | anti-MRP3 antibody

MRP3 (Multidrug Resistance-Associated Protein 3)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215272	**Mouse**	**Human**	**Immunohistochemistry**

PRODUCT SYNONYMS

MRP3 (Multidrug Resistance-Associated Protein 3); Monoclonal Antibody; ABC31; ATP-binding cassette sub-family C member 3 (ABCC3); Canalicular multispecific organic anion transporter 2 (CMOAT2); MLP2; MOATD; Multi-specific organic anion transporter D; Multidrug resistance-associated protein 3; anti-MRP3 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	ABCC3/2971
Specificity	The two members of the large family of ABC transporters known to confer multidrug resistance in human cancer cells are the MDR1 P-glycoprotein and the multidrug-resistance protein MRP1. MRP1 is an integral membrane protein that contains an MDR-like core, an N-terminal membrane-bound region and a cytoplasmic linker, and it is expressed in various cerebral cells, as well as in lung, testis and peripheral blood. The MRP gene family also includes MRP2, which is alternatively designated cMOAT (for canalicular multispecific organic anion transporter) and MRP3, which are both conjugate export pumps exp- ressed predominantly in hepatocytes. MRP2 localizes exclusively to the apical membrane and is constitutively expressed at a high level in normal liver cells. Conversely, MRP3 localizes to the basolateral membrane where it also medi- ates the transport of the organic anion S-(2,4-dinitrophenyl-) glutathione toward the basolateral side of the membrane. MRP3 is normally expressed at comparatively lower levels than MRP2 and increases only when secretion across the apical membrane by MRP2 is impaired.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	572
Applicable Applications for anti-MRP3 antibody	IHC (Immunohistochemistry)
Positive Control	Pancreas.
Immunogen	Recombinant fragment (around aa 815-957) of human MRP3 (ABCC3) protein (exact sequence is proprietary)
Cellular Localization	Cell Surface
Hu-chromosome Location	17q21.33
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



Application Data
Analysis of Protein Array containing more than 19,000 full-length human proteins using MRP3 Mouse Monoclonal Antibody (ABCC3/2971). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



IHC (Immunohistochemisry)
Formalin-fixed, paraffin-embedded human Pancreatic Carcinoma stained with MRP3 Mouse Monoclonal Antibody (ABCC3/2971).



IHC (Immunohiostchemistry)
Formalin-fixed, paraffin-embedded human Pancreatic Carcinoma stained with MRP3 Mouse Monoclonal Antibody (ABCC3/2971).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Pancreatic Carcinoma stained with MRP3 Mouse Monoclonal Antibody (ABCC3/2971).

ADDITIONAL INFORMATION

References	Konig, J., et al. 1999. Characterization of the human multidrug resistance protein isoform MRP3 localized to the basolateral hepatocyte membrane. Hepatology 29: 1156-1163.

NCBI AND UNIPROT INFORMATION

NCBI GI #	221316556
NCBI GeneID	8714
NCBI Accession #	NP_001137542.1
NCBI GenBank Nucleotide #	NP_001137542.1
UniProt Accession #	O15438
Molecular Weight	169/137/55/32/65kDa
NCBI Official Full Name	canalicular multispecific organic anion transporter 2 isoform 2
NCBI Official Synonym Full Names	ATP binding cassette subfamily C member 3
NCBI Official Symbol	ABCC3
NCBI Official Synonym Symbols	MLP2; MRP3; ABC31; MOAT-D; cMOAT2; EST90757
NCBI Protein Information	canalicular multispecific organic anion transporter 2
UniProt Protein Name	Canalicular multispecific organic anion transporter 2
UniProt Gene Name	**ABCC3**
UniProt Synonym Gene Names	CMOAT2; MLP2; MRP3; MOAT-D
UniProt Entry Name	MRP3_HUMAN

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