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36-3430: Anti-MRP3 (Multidrµg Resistance-Associated Protein 3) Monoclonal Antibody(Clone: ABCC3/2971)

Clonality :	Monoclonal
Clone Name :	ABCC3/2971
Application :	IHC
Reactivity :	Human
Gene :	ABCC3
Gene ID :	8714
Uniprot ID :	O15438
Alternative Name :	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; MultidrÂµg resistance-associated protein 3
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Recombinant fragment (around aa 815-957) of human MRP3 (ABCC3) protein (exact sequence is proprietary)

Description

The two members of the large family of ABC transporters known to confer multidrÂµg resistance in human cancer cells are the MDR1 P-glycoprotein and the multidrÂµg-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 conjÂµgate 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.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/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.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes)

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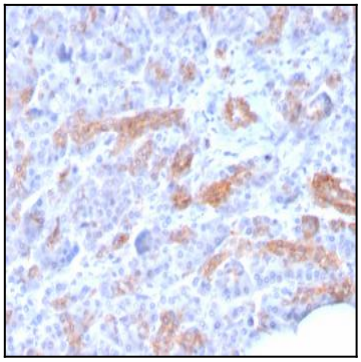


Fig. 1: Formalin-fixed, paraffin-embedded human Pancreatic Carcinoma stained with MRP3 Mouse Monoclonal Antibody (ABCC3/2971).

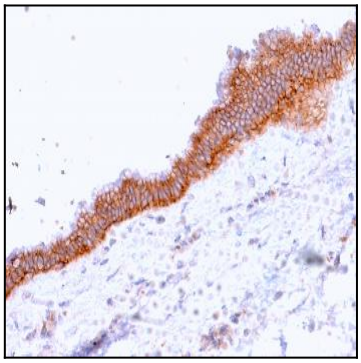


Fig. 2: Formalin-fixed, paraffin-embedded human Pancreatic Carcinoma stained with MRP3 Mouse Monoclonal Antibody (ABCC3/2971).

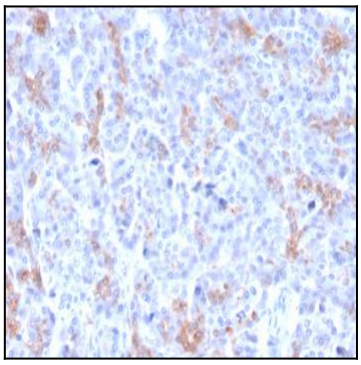


Fig. 3: Formalin-fixed, paraffin-embedded human Pancreatic Carcinoma stained with MRP3 Mouse Monoclonal Antibody (ABCC3/2971).

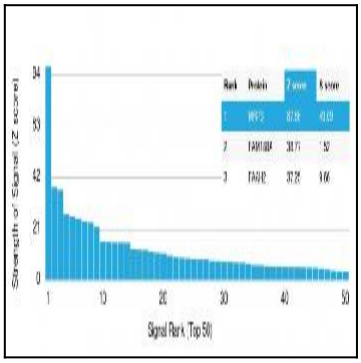


Fig. 4: Analysis of Protein Array containing more than 19,000 full-length human proteins using MRP3 Mouse Monoclonal Antibody (ABCC3/2971). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary 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.

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