Datasheet for ABIN7602224

anti-ABCC5 antibody (AA 647-1409)

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Overview

Quantity:	100 µg
Target:	ABCC5
Binding Specificity:	AA 647-1409
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ABCC5 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-MRP5/ABCC5 Antibody
Immunogen:	E.coli-derived human MRP5/ABCC5 recombinant protein (Position: K647-D1409).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-MRP5/ABCC5 Antibody Picoband® (ABIN7602224). Tested in ELISA, Flow Cytometry, IHC applications. This antibody reacts with Human.
Purification:	Immunogen affinity purified.

Target Details

Target:	ABCC5

Target Details

Alternative Name:	ABCC5 (ABCC5 Products)
Background:	Synonyms: Collagen alpha-1 (XVII) chain, 180 kDa bullous pemphigoid antigen 2, Bullous pemphigoid antigen 2, 120 kDa linear IgA dermatosis antigen, Linear IgA disease antigen 1, LAD-1, 97 kDa linear IgA bullous dermatosis antigen, 97 kDa LAD antigen, 97-LAD, Linear IgA bullous disease antigen of 97 kDa, LABD97, COL17A1, BP180, BPAG2 Tissue Specificity: Detected in skin. In the cornea, it is detected in the epithelial basement membrane, the epithelial cells, and at a lower level in stromal cells. Stratified squamous epithelia. Found in hemidesmosomes. Expressed in cornea, oral mucosa, esophagus, intestine, kidney collecting ducts, ureter, bladder, urethra and thymus but is absent in lung, blood vessels, skeletal muscle and nerves. Background: Multidrug resistance-associated protein 5 is a protein that in humans is encoded by the ABCC5 gene. The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MRP subfamily which is involved in multi-drug resistance. This protein functions in the cellular export of its substrate, cyclic nucleotides. This export contributes to the degradation of phosphodiesterases and possibly an elimination pathway for cyclic nucleotides. Studies show that this protein provides resistance to thiopurine anticancer drugs, 6-mercatopurine and thioguanine, and the anti-HIV drug 9- (2-phosphonylmethoxyethyl)adenine. This protein may be involved in resistance to thiopurines in acute lymphoblastic leukemia and antiretroviral nucleoside analogs in HIV-infected patients. Alternative splicing results in multiple transcript variants.
Molecular Weight:	25 kDa
Gene ID:	10057
UniProt:	O15440
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	Immunohistochemistry (Paraffin-embedded Section), 2-5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Allikmets, R., Gerrard, B., Hutchinson, A., Dean, M. Characterization of the human ABC superfamily: isolation and mapping of 21 new genes using the expressed sequence tags

Application Details

	database. Hum. Molec. Genet. 5: 1649-1655, 1996. 2. Belinsky, M. G., Bain, L. J., Balsara, B. B., Testa, J. R., Kruh, G. D. Characterization of MOAT-C and MOAT-D, new members of the MRP/cMOAT subfamily of transporter proteins. J. Nat. Cancer Inst. 90: 1735-1741, 1998. 3. Kool, M., de Haas, M., Scheffer, G. L., Scheper, R. J., van Eijk, M. J., Juijn, J. A., Baas, F., Borst, P. Analysis of expression of cMOAT (MRP2), MRP3, MRP4, and MRP5, homologues of the multidrug resistance-associated protein gene (MRP1), in human cancer cell lines. Cancer Res. 57: 3537-3547, 1997.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.01 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.