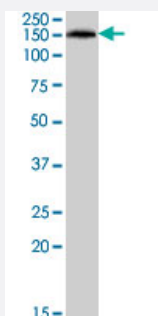


ABCC5 polyclonal antibody

Catalog # PAB7484

Size 100 ug

Applications



Western Blot (Tissue lysate)

ABCC5 polyclonal antibody (Cat # PAB7484) (0.5 ug/mL) staining of human frontal cortex lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Specification

| | |
|--------------------------------|--|
| Product Description | Goat polyclonal antibody raised against synthetic peptide of ABCC5. |
| Immunogen | A synthetic peptide corresponding to human ABCC5. |
| Sequence | KDIDIGKEYIIP-C |
| Host | Goat |
| Theoretical MW (kDa) | 161, 23.7 |
| Reactivity | Human |
| Specificity | This antibody is expected to recognize both reported isoforms (NP_005679.2, NP_001018881.1). |
| Form | Liquid |
| Purification | Antigen affinity purification |
| Concentration | 0.5 mg/mL |
| Quality Control Testing | Antibody Reactive Against Synthetic Peptide. |

| | |
|----------------------------|--|
| Recommend Usage | ELISA (1:32000) Western Blot (0.5-1.5 ug/mL) The optimal working dilution should be determined by the end user. |
| Storage Buffer | In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide) |
| Storage Instruction | Store at -20°C. Aliquot to avoid repeated freezing and thawing. |
| Note | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |

Applications

- Western Blot (Tissue lysate)

ABCC5 polyclonal antibody (Cat # PAB7484) (0.5 ug/mL) staining of human frontal cortex lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — ABCC5

| | |
|---------------------------|--|
| Entrez GeneID | 10057 |
| Protein Accession# | NP_005679.2;NP_001018881.1 |
| Gene Name | ABCC5 |
| Gene Alias | ABC33, DKFZp686C1782, EST277145, MOAT-C, MOATC, MRP5, SMRP, pABC11 |
| Gene Description | ATP-binding cassette, sub-family C (CFTR/MRP), member 5 |
| Omim ID | 605251 |
| Gene Ontology | Hyperlink |

Gene Summary

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-mercaptopurine 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 of this gene has been detected; however, the complete sequence and translation initiation site is unclear. [provided by RefSeq]

Other Designations

ATP-binding cassette, sub-family C, member 5|canalicular multispecific organic anion transporter C

Publication Reference

- [Effects of Chronic Renal Failure on Brain Drug Transporters in Rats.](#)

Naud J, Laurin LP, Michaud J, Beauchemin S, Leblond FA, Pichette V.

Drug Metabolism and Disposition: the Biological Fate of Chemicals 2012 Jan; 40(1):39.

Application: WB, Rat, Rat brains

- [Expression, localization, and function of MRP5 \(ABCC5\), a transporter for cyclic nucleotides, in human placenta and cultured human trophoblasts: effects of gestational age and cellular differentiation.](#)

Meyer Zu Schwabedissen HE, Grube M, Heydrich B, Linnemann K, Fusch C, Kroemer HK, Jedlitschky G.

The American Journal of Pathology 2005 Jan; 166(1):39.

Application: IF, IHC, WB-Ti, Human, Placenta, Cytotrophoblasts

Pathway

- [ABC transporters](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)

- [Hearing Loss](#)
- [Kidney Failure](#)