

ABCC5 / MRP5 Antibody (N-Terminus)
Goat Polyclonal Antibody
Catalog # ALS12221**Specification**

ABCC5 / MRP5 Antibody (N-Terminus) - Product Information

Application	IHC
Primary Accession	O15440
Reactivity	Human, Rabbit, Monkey, Pig, Chicken, Horse, Bovine, Dog
Host	Goat
Clonality	Polyclonal
Calculated MW	161kDa KDa

ABCC5 / MRP5 Antibody (N-Terminus) - Additional Information**Gene ID** 10057**Other Names**

Multidrug resistance-associated protein 5, ATP-binding cassette sub-family C member 5, Multi-specific organic anion transporter C, MOAT-C, SMRP, pABC11, ABCC5, MRP5

Target/Specificity

Human ABCC5 / MRP5. This antibody is expected to recognize both reported isoforms (NP_005679.2; NP_001018881.1).

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

ABCC5 / MRP5 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

ABCC5 / MRP5 Antibody (N-Terminus) - Protein Information**Name** ABCC5**Synonyms** MRP5**Function**

ATP-dependent transporter of the ATP-binding cassette (ABC) family that actively extrudes physiological compounds, and xenobiotics from cells. Mediates ATP-dependent transport of endogenous metabolites such as cAMP and cGMP, folic acid and N-lactoyl-amino acids (in vitro) (PubMed:10893247, PubMed:15899835, PubMed:25964343, PubMed:17229149, PubMed:12695538),

PubMed:12637526). Acts also as a general glutamate conjugate and analog transporter that can limit the brain levels of endogenous metabolites, drugs, and toxins (PubMed:26515061). Confers resistance to the antiviral agent PMEA (PubMed:12695538). Able to transport several anticancer drugs including methotrexate, and nucleotide analogs in vitro, however it does with low affinity, thus the exact role of ABCC5 in mediating resistance still needs to be elucidated (PubMed:10840050, PubMed:15899835, PubMed:12435799, PubMed:12695538). Acts as a heme transporter required for the translocation of cytosolic heme to the secretory pathway (PubMed:24836561). May play a role in energy metabolism by regulating the glucagon-like peptide 1 (GLP-1) secretion from enteroendocrine cells (By similarity).

Cellular Location

Basolateral cell membrane; Multi-pass membrane protein. Golgi apparatus lumen Endosome membrane. Cytoplasmic granule {ECO:0000250|UniProtKB:Q9R1X5}. Apical cell membrane; Multi-pass membrane protein. Note=In most cells, routes to the basolateral plasma membrane, but in the brain capillary endothelial cells that form the blood-brain barrier, resides in the apical membrane

Tissue Location

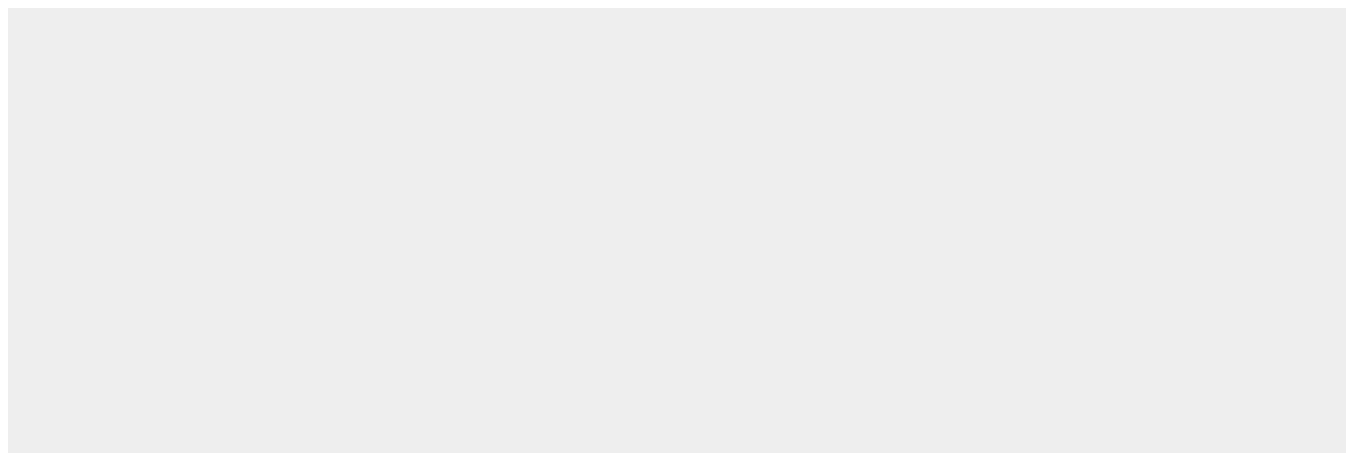
[Isoform 3]: Predominant isoform in retinal pigment epithelium, bladder, and stomach.

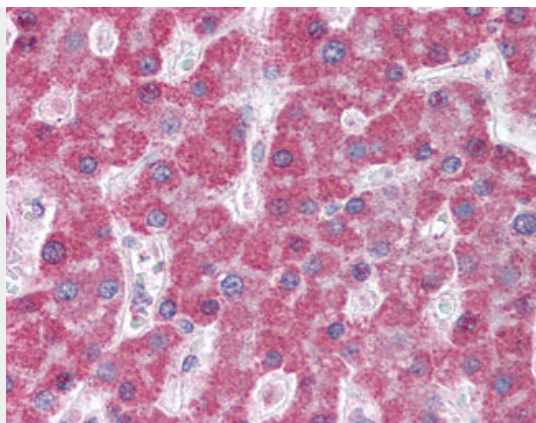
ABCC5 / MRP5 Antibody (N-Terminus) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ABCC5 / MRP5 Antibody (N-Terminus) - Images





Anti-ABCC5 / MRP5 antibody IHC of human liver.

ABCC5 / MRP5 Antibody (N-Terminus) - Background

Acts as a multispecific organic anion pump which can transport nucleotide analogs.

ABCC5 / MRP5 Antibody (N-Terminus) - References

Belinsky M.G.,et al.J. Natl. Cancer Inst. 90:1735-1741(1998).
McAleer M.A.,et al.J. Biol. Chem. 274:23541-23548(1999).
Suzuki T.,et al.Gene 242:167-173(2000).
Wijnholds J.,et al.Proc. Natl. Acad. Sci. U.S.A. 97:7476-7481(2000).
Stojic J.,et al.BMC Mol. Biol. 8:42-42(2007).