

ABCC4 / MRP4 Antibody (clone 1B2)
Mouse Monoclonal Antibody
Catalog # ALS14229**Specification**

ABCC4 / MRP4 Antibody (clone 1B2) - Product Information

Application	WB, IHC
Primary Accession	O15439
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	150kDa KDa

ABCC4 / MRP4 Antibody (clone 1B2) - Additional Information**Gene ID** 10257**Other Names**

Multidrug resistance-associated protein 4, ATP-binding cassette sub-family C member 4, MRP/cMOAT-related ABC transporter, Multi-specific organic anion transporter B, MOAT-B, ABCC4, MRP4

Target/Specificity

Human ABCC4

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

ABCC4 / MRP4 Antibody (clone 1B2) is for research use only and not for use in diagnostic or therapeutic procedures.

ABCC4 / MRP4 Antibody (clone 1B2) - Protein Information**Name** ABCC4**Synonyms** MOATB, MRP4**Function**

ATP-dependent transporter of the ATP-binding cassette (ABC) family that actively extrudes physiological compounds and xenobiotics from cells. Transports a range of endogenous molecules that have a key role in cellular communication and signaling, including cyclic nucleotides such as cyclic AMP (cAMP) and cyclic GMP (cGMP), bile acids, steroid conjugates, urate, and prostaglandins (PubMed: [11856762](http://www.uniprot.org/citations/11856762)), PubMed: [12523936](http://www.uniprot.org/citations/12523936), PubMed: [12835412](http://www.uniprot.org/citations/12835412), PubMed: [12883481](http://www.uniprot.org/citations/12883481), PubMed: [15364914](http://www.uniprot.org/citations/15364914)),

PubMed: 15454390, PubMed: 16282361, PubMed: 17959747, PubMed: 18300232, PubMed: 26721430). Mediates the ATP-dependent efflux of glutathione conjugates such as leukotriene C4 (LTC4) and leukotriene B4 (LTB4) too. The presence of GSH is necessary for the ATP-dependent transport of LTB4, whereas GSH is not required for the transport of LTC4 (PubMed: 17959747). Mediates the cotransport of bile acids with reduced glutathione (GSH) (PubMed: 12523936, PubMed: 12883481, PubMed: 16282361). Transports a wide range of drugs and their metabolites, including anticancer, antiviral and antibiotics molecules (PubMed: 11856762, PubMed: 12105214, PubMed: 15454390, PubMed: 17344354, PubMed: 18300232). Confers resistance to anticancer agents such as methotrexate (PubMed: 11106685).

Cellular Location

Basolateral cell membrane; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane protein. Note=Its localization to the basolateral or apical membranes is tissue-dependent.

Tissue Location

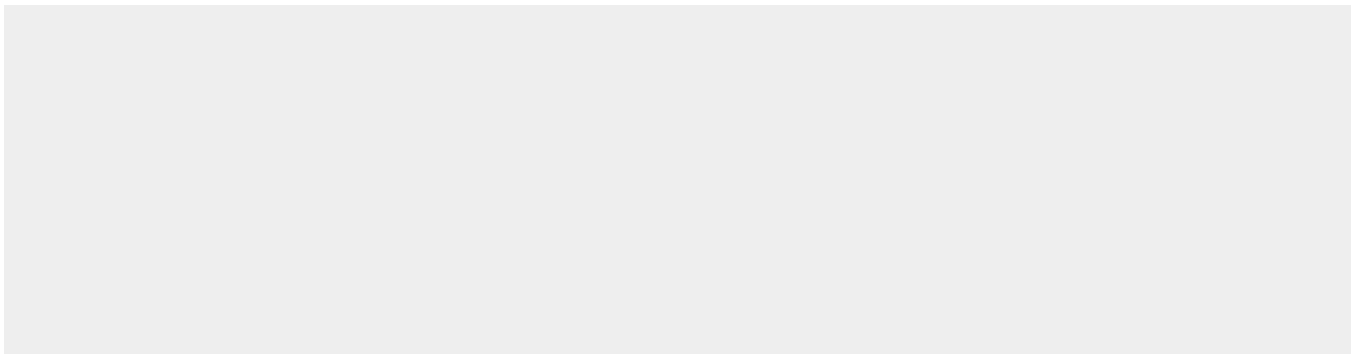
Widely expressed, with particularly high levels in prostate, but is barely detectable in liver. sinusoidal membrane of hepatocytes

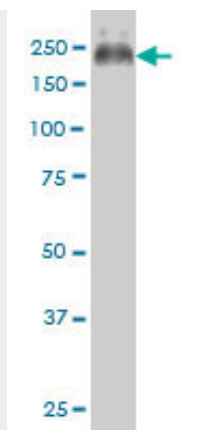
ABCC4 / MRP4 Antibody (clone 1B2) - Protocols

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

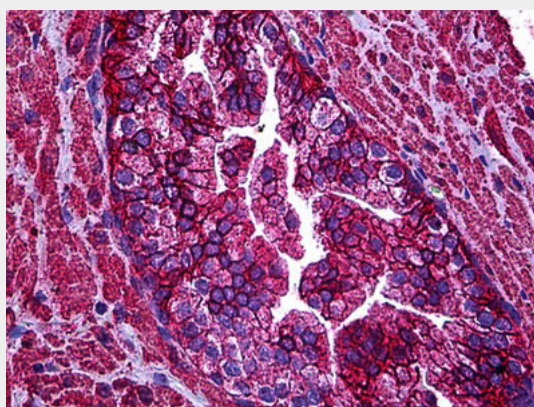
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ABCC4 / MRP4 Antibody (clone 1B2) - Images





ABCC4 monoclonal antibody, clone 1B2 Western blot of ABCC4 expression in HeLa nuclear extract.



Anti-ABCC4 / MRP4 antibody IHC of human prostate.

ABCC4 / MRP4 Antibody (clone 1B2) - Background

May be an organic anion pump relevant to cellular detoxification.

ABCC4 / MRP4 Antibody (clone 1B2) - References

- Lee K.,et al.Cancer Res. 58:2741-2747(1998).
- Adachi M.,et al.J. Biol. Chem. 277:38998-39004(2002).
- Kato R.,et al.Submitted (DEC-2002) to the EMBL/GenBank/DDBJ databases.
- Ota T.,et al.Nat. Genet. 36:40-45(2004).
- Dunham A.,et al.Nature 428:522-528(2004).