

Rabbit Anti-MRP1/ABCC1 antibody

SL0657R

Product Name MRP1/ABCC1

Chinese Name 多药耐药相关蛋白 1 抗体

Alias Multidrug Resistanec-Associated Protein 1; ABC 29; ABC29; ABCC 1; ABCC; ABCC1; ATP binding cassette sub family C (CFTR/MRP) member 1; ATP binding cassette sub-family C member 1; DKFZp686N04233; DKFZp781G125; GS X; GSX; Leukotriene C(4) transporter; LTC4 transporter; MRP 1; MRP; Multidrug resistance associated protein 1; Multidrug resistance protein; Multiple drug resistance associated protein; Multiple drug resistance protein 1; MRP1_HUMAN.

Research Area Tumour Cell biology immunology

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human,Rat (predicted:Mouse,Chicken,Cow)

Applications IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=2ug/test (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 170kDa

Cellular localization The cell membrane

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human MRP1: 501-600/1531 <Cytoplasmic>

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed

[PubMed](#)

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 full transporter is a member of the MRP subfamily which is involved in multi-drug resistance. This protein functions as a multispecific organic anion transporter, with oxidized glutathione, cysteinyl leukotrienes, and activated aflatoxin B1 as substrates. This protein also transports glucuronides and sulfate conjugates of steroid hormones and bile salts. Alternatively spliced variants of this gene have been described but their full-length nature is unknown. [provided by RefSeq, Apr 2012]

Function:

Mediates export of organic anions and drugs from the cytoplasm. Mediates ATP-dependent transport of glutathione and glutathione conjugates, leukotriene C4, estradiol-17-beta-o-glucuronide, methotrexate, antiviral drugs and other xenobiotics. Confers resistance to anticancer drugs. Hydrolyzes ATP with low efficiency.

Subcellular Location:

Cell membrane; Multi-pass membrane protein.

**Product
Detail**

Tissue Specificity:

Lung, testis and peripheral blood mononuclear cells.

Similarity:

Belongs to the ABC transporter superfamily. ABCC family. Conjugate transporter (TC 3.A.1.208) subfamily.

Contains 2 ABC transmembrane type-1 domains.

Contains 2 ABC transporter domains.

SWISS:

O35379

Gene ID:

17250

Database links:

[Entrez Gene: 4363](#) Human

[Entrez Gene: 17250](#) Mouse

[Entrez Gene: 24565](#) Rat

[Omim: 158343](#) Human

[SwissProt: P33527](#) Human

[SwissProt: O35379](#) Mouse

[SwissProt: Q8CG09](#) Rat

[Unigene: 391464](#) Human

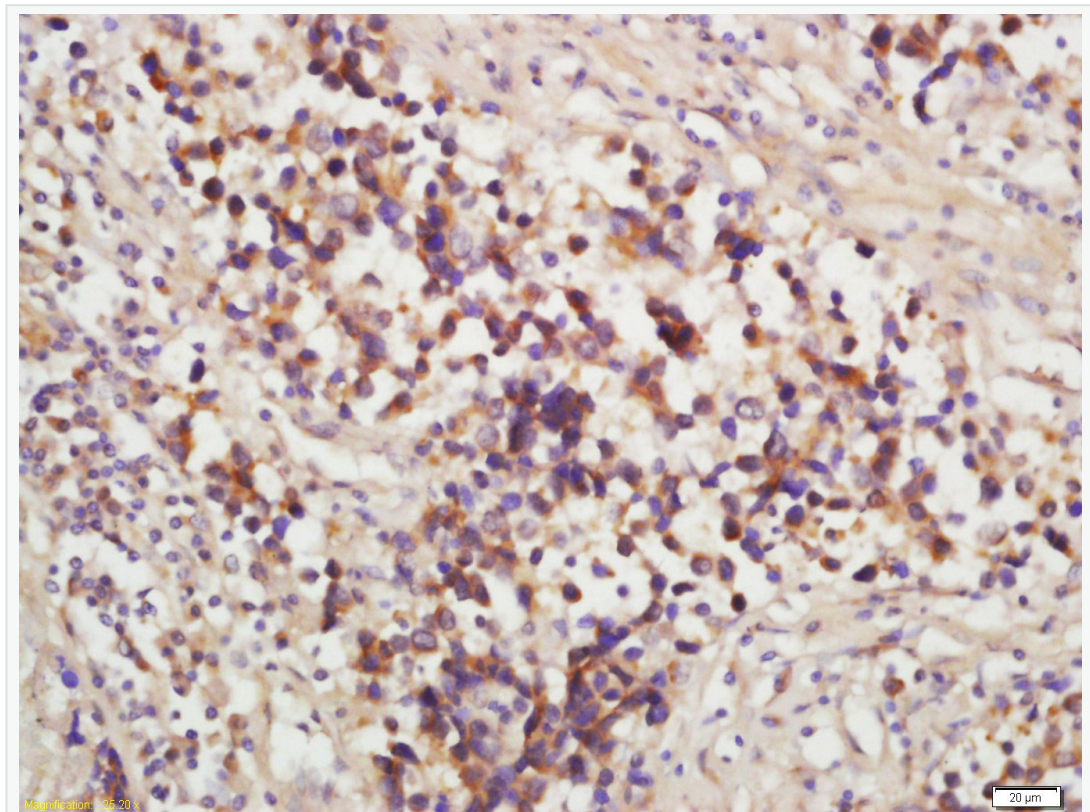
[Unigene: 196634](#) Mouse

[Unigene: 10495](#) Rat

多药耐药相关蛋白 1(MRP1)是 MRP 家族中的一个成员之一,基因的染色体位点是 16p13.1, 它编码分子量是 170-190kDa 的 MRP1 蛋白。

MRP1 又称 ABCC1 主要表达在消化系统中的肝脏、结肠和胰腺组织中,常用于多种 Tumour 的多药耐药机制的研究。

Product Picture

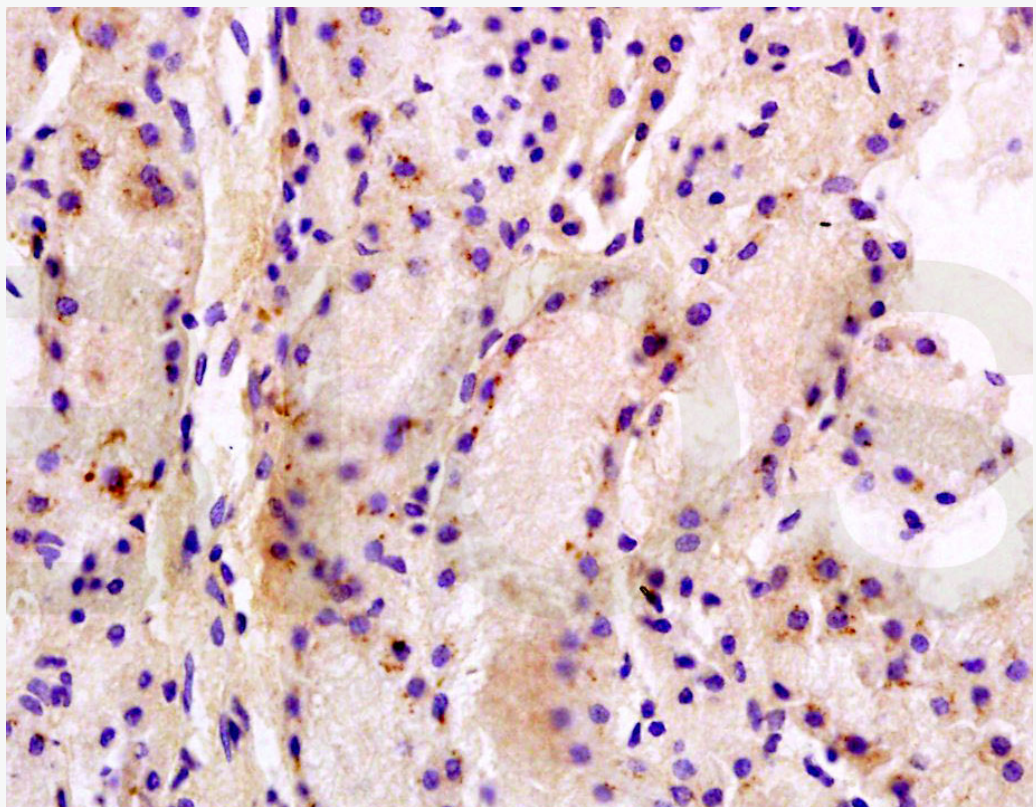


Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and

paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

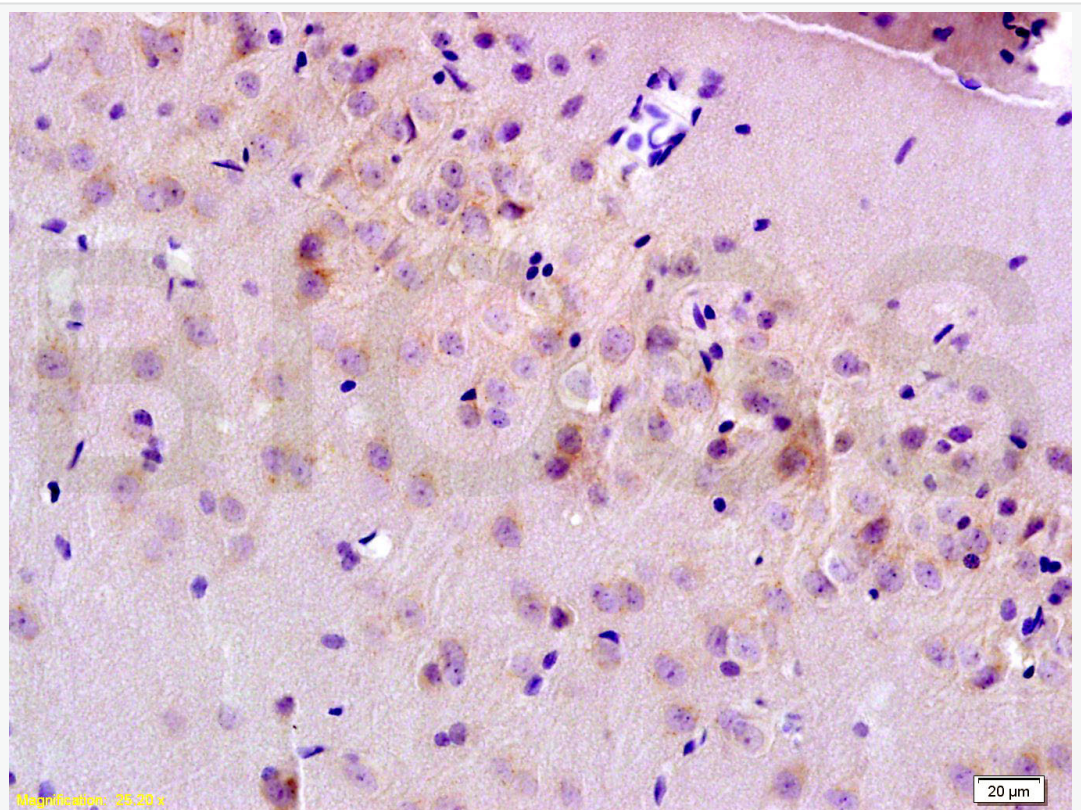
Incubation: Anti-MRP1 Polyclonal Antibody, Unconjugated(SL0657R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

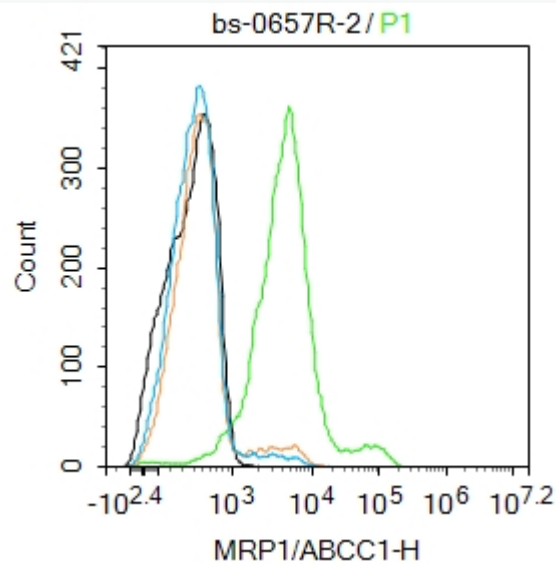
Incubation: Anti-MRP1 Polyclonal Antibody, Unconjugated(SL0657R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer

(normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-MRP1 Polyclonal Antibody, Unconjugated(SL0657R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: K562.

Primary Antibody (green line): Rabbit Anti-MRP1/ABCC1 antibody (SL0657R)

Dilution: 2ug/Test;

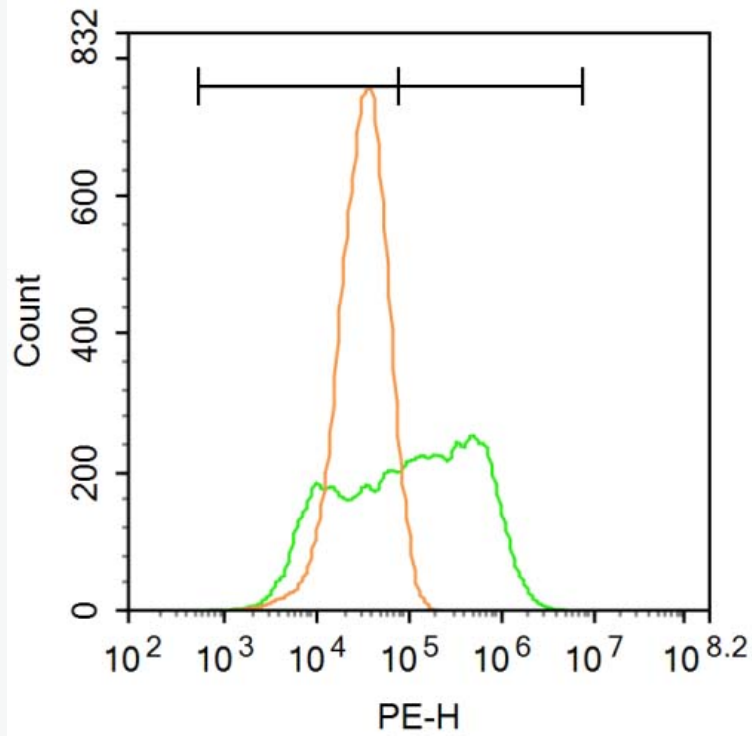
Secondary Antibody : Goat anti-rabbit IgG-FITC

Dilution: 0.5ug/Test.

Protocol

The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room

temperature. Acquisition of 20,000 events was performed.



Blank control: A549.

Primary Antibody (green line): Rabbit Anti-ABCC1 antibody (SL0657R)

Dilution: 3 μ g /10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-PE

Dilution: 1 μ g /test.

Protocol

The cells were incubated in 5%BSA to block non-specific protein-protein



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interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.