

Rabbit Anti-ABCG2 antibody

SL0662R

Product Name ABCG2

Chinese Name 三磷酸腺苷结合 TransporterG 超家族成员 2 抗体

Alias ABC15; ABCG 2; ABCG2_HUMAN; ABCP; ATP binding cassette sub family G (WHITE) member 2; ATP binding cassette transporter G2; ATP-binding cassette sub-family G member 2; BCRP1; BMDP; Breast cancer resistance protein; CD338; CDw338; CDw338 antigen; EST157481; GOUT1; MGC102821; Mitoxantrone resistance associated protein; Mitoxantrone resistance-associated protein; MRX; Multi drug resistance efflux transport ATP binding cassette sub family G (WHITE) member 2; MXR; MXR1; Placenta specific ATP binding cassette transporter; Placenta specific MDR protein; Placenta-specific ATP-binding cassette transporter; UAQTL1.

Research Area immunology Neurobiology Stem cells Transporter Cell Surface Molecule

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human Mouse Rat

Applications WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
(Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 72kDa

Cellular localization The nucleus The cell membrane

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human ABCG2: 571-655/655
<Cytoplasmic>

Lsotype IgG

Purification affinity purified by Protein A

Buffer Human,Mouse,Rat1M TBS(pH7.4) with 1% BSA, Human,Mouse,Rat3% Proclin300 and



Solution	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 membrane-associated protein encoded by this gene is included in 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 White subfamily. Alternatively referred to as a breast cancer resistance protein, this protein functions as a xenobiotic transporter which may play a major role in multi-drug resistance. It likely serves as a cellular defense mechanism in response to mitoxantrone and anthracycline exposure. Significant expression of this protein has been observed in the placenta, which may suggest a potential role for this molecule in placenta tissue. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]
Product Detail	<p>Function: Xenobiotic transporter that may play an important role in the exclusion of xenobiotics from the brain. May be involved in brain-to-blood efflux. Appears to play a major role in the multidrug resistance phenotype of several cancer cell lines. When overexpressed, the transfected cells become resistant to mitoxantrone, daunorubicin and doxorubicin, display diminished intracellular accumulation of daunorubicin, and manifest an ATP-dependent increase in the efflux of rhodamine 123.</p> <p>Subunit: Monomer or homodimer; disulfide-linked.</p> <p>Subcellular Location: Cell membrane; Multi-pass membrane protein.</p> <p>Tissue Specificity: Highly expressed in placenta. Low expression in small intestine, liver and colon.</p> <p>Similarity: Belongs to the ABC transporter superfamily. ABCG family. Eye pigment precursor importer (TC 3.A.1.204) subfamily. Contains 1 ABC transmembrane type-2 domain. Contains 1 ABC transporter domain.</p> <p>SWISS: Q9UNQ0</p> <p>Gene ID:</p>

9429

Database links:

[Entrez Gene: 9429](#) Human

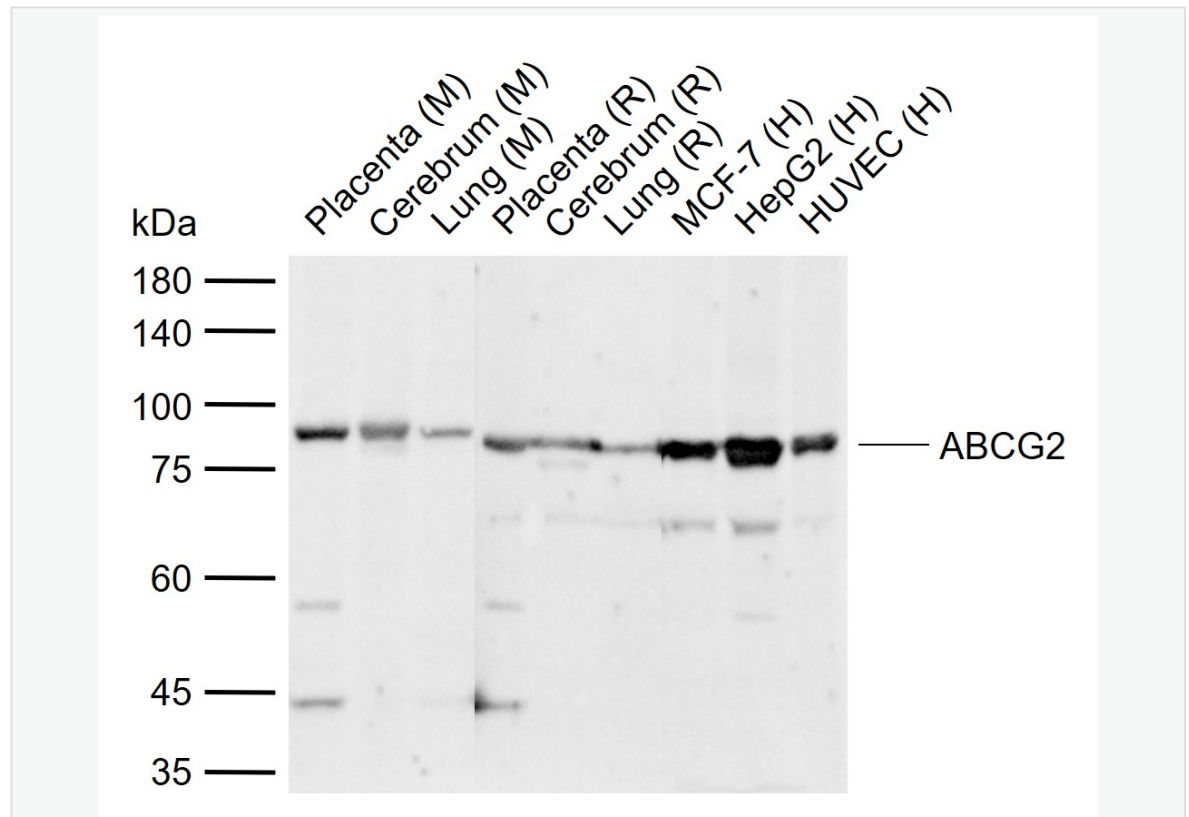
[Omim: 603756](#) Human

[SwissProt: Q9UNQ0](#) Human

[Unigene: 480218](#) Human

Hematopoietic/Neural Stem Cell Marker (造血/神经 Stem cellsMaker)

**Product
Picture**



Sample:

Lane 1: Mouse Placenta tissue lysates

Lane 2: Mouse Cerebrum tissue lysates

Lane 3: Mouse Lung tissue lysates

Lane 4: Rat Placenta tissue lysates

Lane 5: Rat Cerebrum tissue lysates

Lane 6: Rat Lung tissue lysates

Lane 7: Human MCF-7 cell lysates

Lane 8: Human HepG2 cell lysates

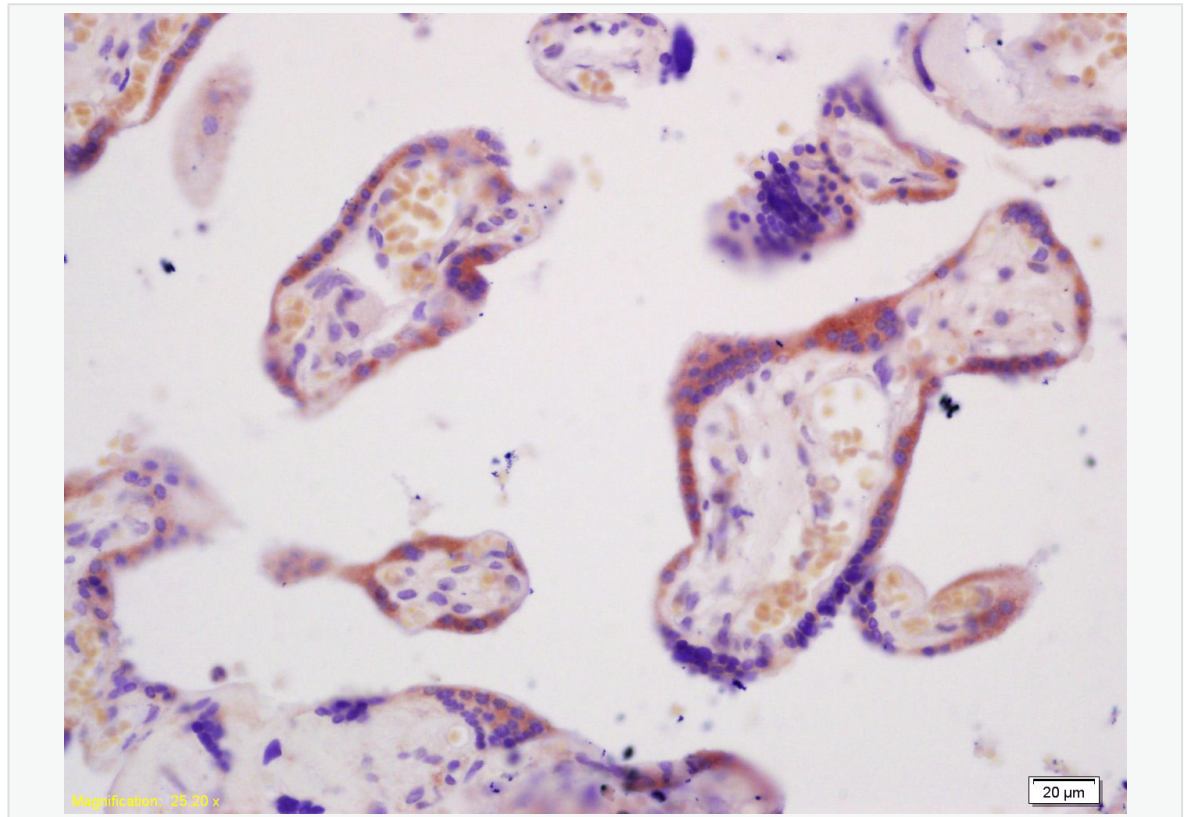
Lane 9: Human HUVEC cell lysates

Primary: Anti-ABCG2 (SL0662R) at 1/1000 dilution

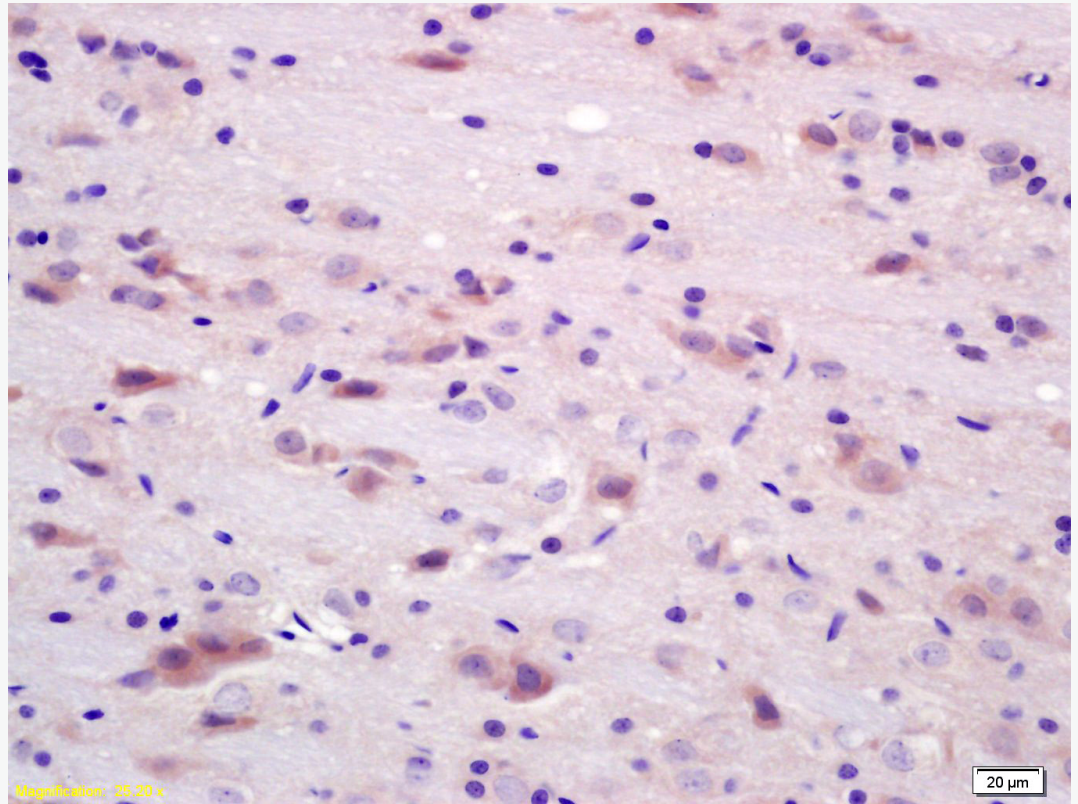
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 72 kDa

Observed band size: 82 kDa



Tissue/cell: human placenta tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (Human,Mouse,Rat1M, 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-ABCG2/CD338 Polyclonal Antibody, Unconjugated(SL0662R) 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 (Human,Mouse,Rat1M, 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-ABCG2/CD338 Polyclonal Antibody, Unconjugated(SL0662R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining