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Rabbit Anti-ABCG2 antibody

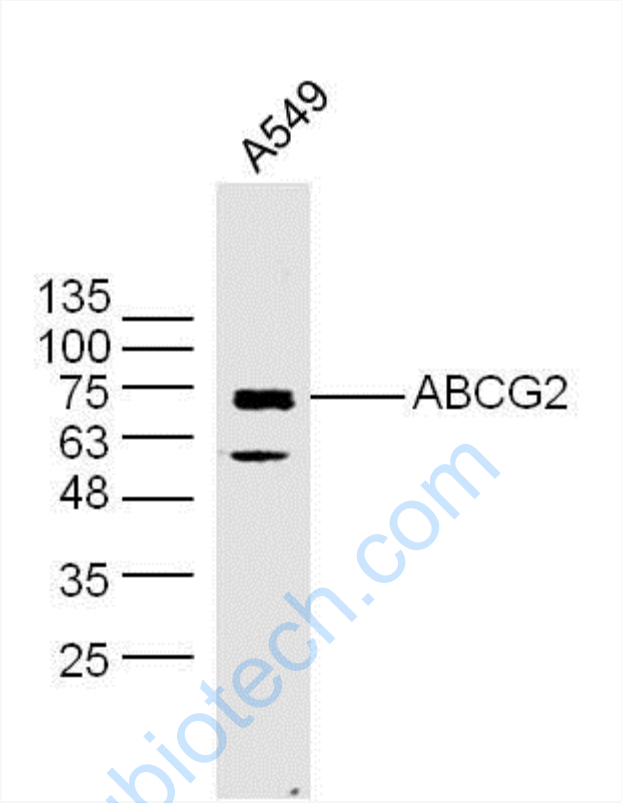
SL0662R

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; 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.
文献引用 PubMed :	**Specific References(2)**|SL0662R has been referenced in 2 publications. **[IF=1.35]**Su, L., et al. "Effect of colibacillosis or coccidiosis on expression of breast cancer resistance protein in small intestine and liver of chickens." Journal of Veterinary Pharmacology and Therapeutics (2013).**WB;Chicken**. PubMed:23531049 **[IF=3.61]**Skoda, Jan, et al. "Cancer stem cell markers in pediatric sarcomas: Sox2 is associated with tumorigenicity in immunodeficient mice." Tumor Biology(2016): 1-14.**IHC-P;Human**. PubMed:26790443
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.

Molecular weight:	72kDa
Cellular localization:	The nucleusThe cell membrane
Form:	Lyophilized or 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
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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] **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. **Subunit:** Monomer or homodimer; disulfide-linked. **Subcellular Location:** Cell membrane; Multi-pass membrane protein. **Tissue Specificity:** Highly expressed in placenta. Low expression in small intestine, liver and colon. **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. **SWISS:** Q9UNQ0 **Gene ID:** 9429 **Database links:** Entrez Gene: 9429Human Omim: 603756Human SwissProt: Q9UNQ0Human Unigene: 480218Human **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. Hematopoietic/Neural Stem Cell Marker（造血/神经Stem cellsMaker)

Picture:



Sample:

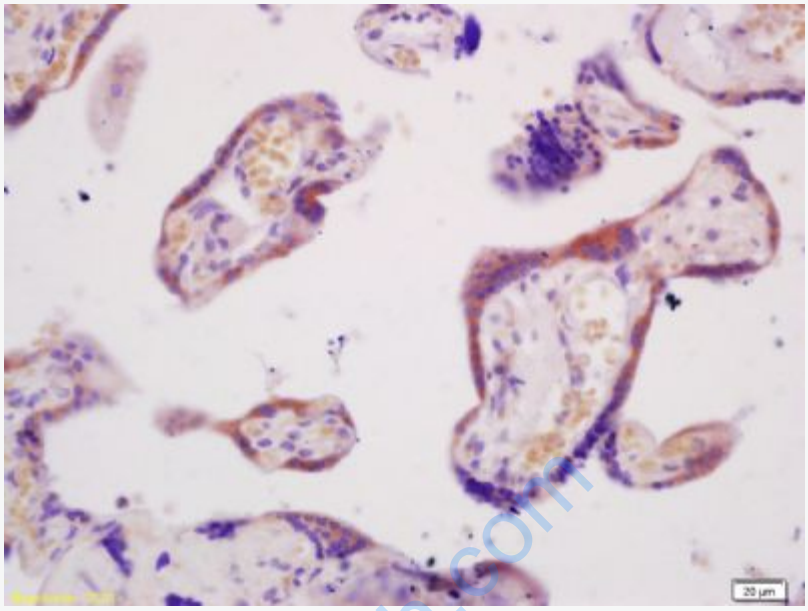
A549 Cell (Human) Lysate at 40 ug

Primary: Anti-ABCG2 (SL0662R) at 1/300 dilution

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

Predicted band size: 72 kD

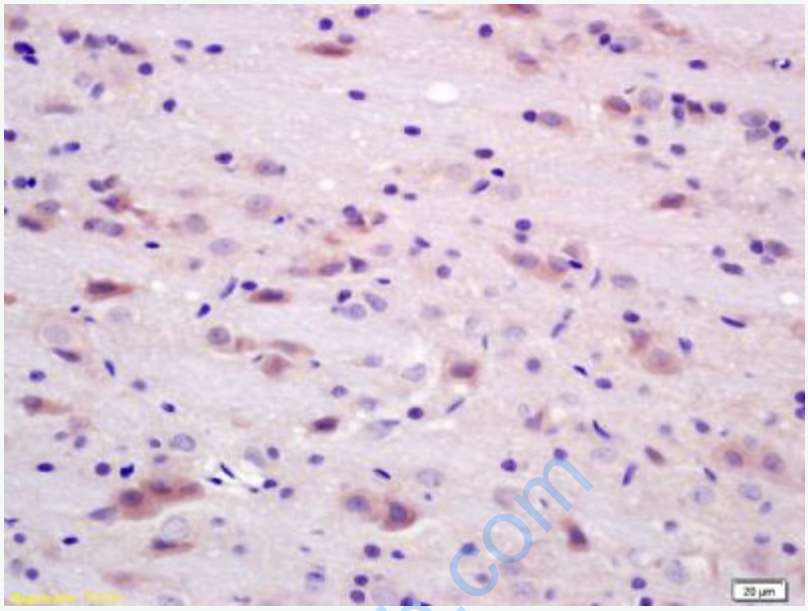
Observed band size: 72 kD



Tissue/cell: human placenta tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, 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℃ 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 (0.01M, 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℃ 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