

Rabbit ABCB5 Polyclonal Antibody | anti-ABCB5 antibody

ABCB5 Antibody

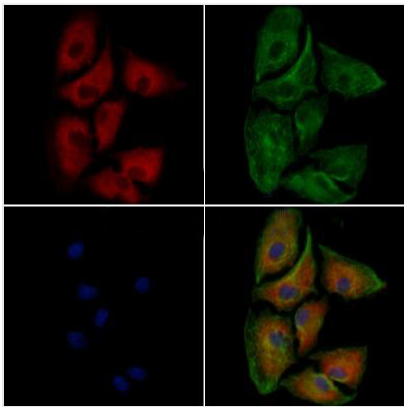
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329121	Rabbit	Human, Mouse, Rat, Monkey Predicted Reactivity: Pig(88%), Bovine(88%), Horse(88%), Sheep(88%), Rabbit(88%), Dog(88%)	ELISA

PRODUCT SYNONYMS

ABCB5; Polyclonal Antibody; ABCB5 Antibody; ABCB 5; ABCB5 P-gp; ABCB5_HUMAN; ABCB5alpha; ABCB5beta; ATP binding cassette protein; ATP binding cassette sub family B (MDR/TAP) member 5; ATP binding cassette sub family B member 5; ATP-binding cassette sub-family B member 5; EST422562; P glycoprotein ABCB5; P-glycoprotein ABCB5; anti-ABCB5 antibody

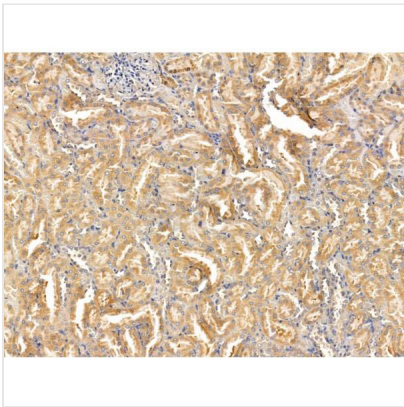
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat, Monkey Predicted Reactivity: Pig(88%), Bovine(88%), Horse(88%), Sheep(88%), Rabbit(88%), Dog(88%)
Clonality	Polyclonal
Isotype	IgG
Specificity	ABCB5 Antibody detects endogenous levels of total ABCB5.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	1257
Applicable Applications for anti-ABCB5 antibody	ELISA
Immunogen	A synthesized peptide derived from human ABCB5, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



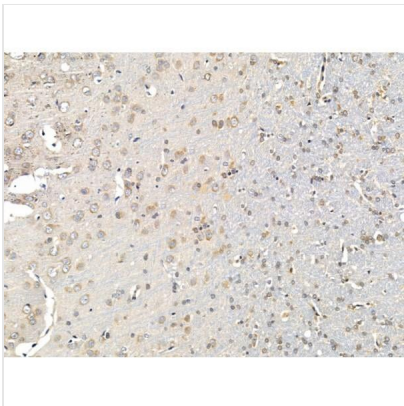
IF (Immunofluorescence)

AAA329121 staining A549 cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25Å°C. Samples were then incubated with primary Ab(AAA329121) and mouse anti-beta tubulin Ab(T0023) for 1 hour at 37Å°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



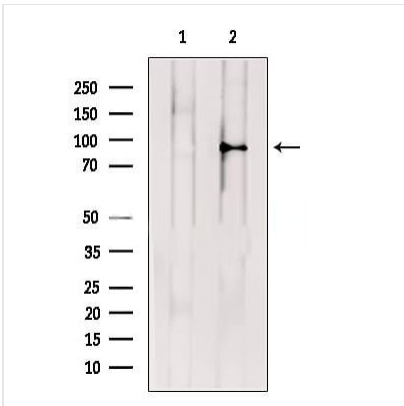
IHC (Immunohistochemistry)

AAA329121 at 1/100 staining Rat kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Å°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



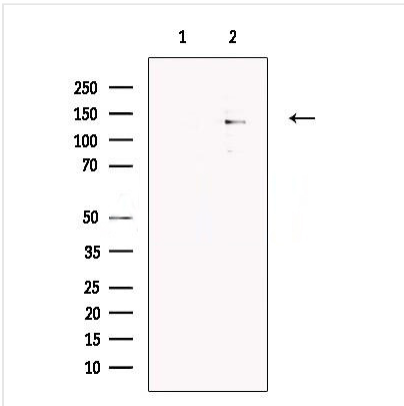
IHC (Immunohistochemistry)

AAA329121 at 1/100 staining Rat brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Å°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from COS, using ABCB5 Antibody. The lane on the left was treated with blocking peptide.



WB (Western Blot)

Western blot analysis of extracts from Mouse melanoma, using ABCB5 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ABCB5 antibody	Function: Drug efflux transporter present in a number of stem cells that acts as a regulator of cellular differentiation. Able to mediate efflux from cells of the rhodamine dye and of the therapeutic drug doxorubicin. Specifically present in limbal stem cells, where it plays a key role in corneal development and repair. Subcellular Location: Cell membrane>Multi-pass membrane protein. Tissue Specificity: Expressed by CD133-expressing progenitor cells among epidermal melanocytes (at protein level). Widely expressed with specific expression in pigment cells. Highly expressed in several malignant tissues: highly expressed in clinical melanomas, with low expression in normal skin. In melanoma, marks malignant melanoma-initiating cells (MMIC), in which clinical virulence resides as a consequence of unlimited self-renewal capacity, resulting in inexorable tumor progression and metastasis. Also highly expressed in a number of leukemia cells. Expressed in basal limbal epithelium. Similarity: Belongs to the ABC transporter superfamily. ABCB family. Multidrug resistance exporter (TC 3.A.1.201) subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	255708477
NCBI GeneID	340273
NCBI Accession #	NP_001157413.1
NCBI GenBank Nucleotide #	NP_001157413.1
UniProt Accession #	Q2M3G0
Molecular Weight	Observed Molecular Weight: (Observed)138kD. Predicted Molecular Weight: (Calculated)139kDa.
NCBI Official Full Name	ATP-binding cassette sub-family B member 5 isoform 1
NCBI Official Synonym Full Names	ATP binding cassette subfamily B member 5
NCBI Official Symbol	ABCB5
NCBI Official Synonym Symbols	ABCB5beta; EST422562; ABCB5alpha
NCBI Protein Information	ATP-binding cassette sub-family B member 5
UniProt Protein Name	ATP-binding cassette sub-family B member 5
UniProt Gene Name	ABCB5
UniProt Entry Name	ABCB5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.