

Anti-ABCB5 Antibody

Catalog Number: A02979

About ABCB5

This antibody is suitable for Cancer, Immunology and Nuclear Signaling research. Anti-ABCB5 Antibody is a ATP-Binding Cassette protein. ABCB5 is a novel member of the human P-glycoprotein family. It functions as a determinant of membrane potential and regulator of cell fusion in physiologic skin progenitor cells. Cell fusion is thought to contribute to tissue differentiation. ABCB5 is predominantly expressed in melanoma cells and is a novel molecular marker for a distinct subset of chemoresistant stem cell phenotype-expressing tumor cells among human epidermal melanocytes. ABCB5 is a rhodamine efflux transporter. This antibody product is intended to be used to confirm cellular localization and expression level of ABCB5. ABCB5 antibody is ideal for Cancer and Signal Transduction research.

Overview

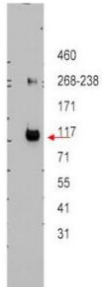
Product Name	Anti-ABCB5 Antibody
Reactive Species	Human
Description	Boster Bio Anti-ABCB5 Antibody (Catalog # A02979). Tested in ELISA, IHC, WB applications. This antibody reacts with Human.
Application	ELISA, IHC, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store Anti-ABCB5 at -20°C prior to opening. Aliquot antibody and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	Q2M3G0

Technical Details

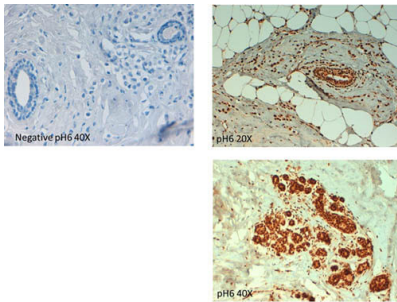
Immunogen	ABCB5 antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to residues corresponding to an internal region of human ABCB5.
Predicted Reactive Species	Bovine, Pufferfish, Zebrafish
Isotype	IgG
Form	Liquid (sterile filtered)
Concentration	1.1 mg/mL by UV absorbance at 280 nm

Purification	This product was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody is specific for human ABCB5 protein. A BLAST analysis was used to suggest partial cross-reactivity with ABCB5 from monkey (85% homology), rat (68% homology) and mouse (62% homology) sources. Cross-reactivity with ABCB5 from other sources has not been determined.
Suggested Dilutions	ELISA: 1:10,000 - 1:50,000 IHC: 1:200 WB: 1:20,000 This affinity purified ABCB5 antibody has been tested for use in ELISA, IHC, and western blotting. Specific conditions for reactivity should be optimized by the end user.

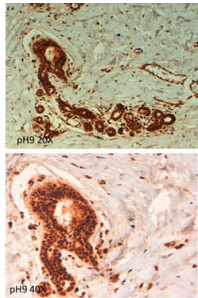
Anti-ABCB5 Antibody (A02979) Images



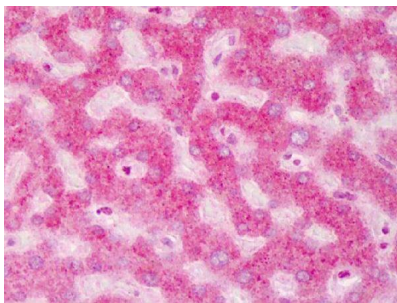
Western blot using Boster's affinity purified anti-ABCB5 antibody shows detection of ABCB5 beta in ~12.5 ug of transfected-Hi5 whole cell lysate. No reaction was seen when antibody was pre-incubated with the immunizing peptide (data not shown). A 3-8% Tris-acetate gel was used for separation. The arrowhead corresponds to 117 kDa ABCB5. The membrane was probed with the primary antibody at a 1:10,000 dilution in 5% milk in TBST at 4° C, overnight. Personal Communication, JP Gillet, CCR-NCI, Bethesda, MD.



Immunohistochemistry of Rabbit anti ABCB5 antibody. Tissue: human breast carcinoma at pH6. (left, neg control) (right, 20X, 40X). Fixation: formalin fixed paraffin embedded. Primary antibody: ABCB5 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: ABCB5 is cytoplasmic. Staining: ABCB5 as precipitated brown signal with hematoxylin purple nuclear counterstain.



Immunohistochemistry of Rabbit anti ABCB5 antibody. Tissue: human breast carcinoma at pH9. (20X, 40X) Fixation: formalin fixed paraffin embedded. Primary antibody: ABCB5 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: ABCB5 is cytoplasmic. Staining: ABCB5 as precipitated brown signal.



Immunohistochemistry of ABCB5 antibody. Tissue: human liver. Fixation: formalin fixed paraffin embedded. Antigen retrieval: user optimized. Primary antibody: ABCB5 at 1:200. Secondary antibody: Peroxidase goat anti-rabbit at 1:10,000 for 45 min at RT. Localization: Moderate to strong cytoplasmic and membranous staining was observed in hepatocytes. Occasional nuclear staining was observed in hepatocytes and sinusoidal cells. Staining: antibody as precipitated red signal with a hematoxylin purple nuclear counterstain.

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