**AP09395PU-S**

**Polyclonal Antibody to ABCB5 - Aff - Purified**

Alternate names: ATP-binding cassette sub-family B member 5

Quantity: 25 µl

Concentration: 1.29 mg/ml (AP09395PU-N) / 0.31 mg/ml (AP09395PU-S) - by UV absorbance at 280 nm

Background: ATP-Binding Cassette proteins comprise a superfamily of transporters with a wide variety of substrates. 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. It has been identified as a novel drug transporter in human malignant melanoma. ABCB5 is a rhodamine efflux transporter. This antibody product is intended to be used to confirm cellular localization and expression level of ABCB5.

Uniprot ID: Q2M3G0

NCBI: NP_001157413.1

GeneID: 340273

Host / Isotype: Rabbit / IgG

Immunogen: Synthetic peptide corresponding to residues corresponding to an internal region of Human ABCB5

Format: State: Liquid purified Ig fraction

Purification: Affinity Chromatography

Buffer System: 0.02M Potassium Phosphate, 0.15M Sodium Chloride, pH 7.2 containing 0.01% (w/v) Sodium Azide

Applications: ELISA: 1/10,000-1/50,000.

Western Blot: 1/20,000.

Trial Size:

ELISA: 1/10,000-1/15,000.

Western Blot: 1/10,000.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody is specific for ABCB5 protein.

Species Reactivity: Tested: Human.

Expected from sequence similarity: Monkey (85%), Rat (68%), Mouse (62%).

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.
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Storage: Store the antibody at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

Storage Conditions for Trial Size: This vial contains a relatively low volume of reagent (25 µl). To minimize loss of volume dilute 1:10 by adding 225 µl of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Shelf life: 3 month from despatch.

General Readings:

Pictures: Western blot using affinity purified anti-ABCB5 antibody shows detection of ABCB5 beta in ~12.5 µg 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.