

Human ABCB5 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF5799

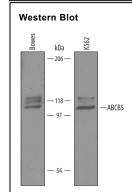
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human ABCB5 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	E. coli-derived recombinant human ABCB5 Ile141-Val247 Accession # Q2M3G0
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

DATA



Detection of Human ABCB5 by Western Blot. Western blot shows lysates of Bowes human melanoma cell line and K562 human chronic myelogenous leukemia cell line. PVDF Membrane was probed with 1 µg/mL of Human ABCB5 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5799) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for ABCB5 at approximately 100-110 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunobiot Buffer Group 8.

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Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS.

ShippingThe product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

ABCB5 (ATP-binding cassette, subfamily B [DR/TAP] member 5) is a 90 kDa (predicted MW) member of the human P-glycoprotein family of molecules. It is expressed by CD133+ pluripotent pigment stem cells, where it serves as a marker for cells that show a high incidence of polyploidy. Human ABCB5 is 812 amino acids (aa) in length. It is possibly a five transmembrane protein with a 247 aa N-terminal extracellular domain (ECD) (aa 1-247) and a 283 aa C-terminal cytoplasmic region (aa 530-812). The ECD contains one ABC transporter (aa 2-177), while the cytoplasmic region contains a second ABC transporter (aa 570-808). There are two potential splice forms. One shows a seven aa substitution for aa 125-812, while another possesses an alternative start site 445 aa upstream of the standard site. Over aa 141-247, human ABCB5 shares 64% aa identity with mouse ABCB5.

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