

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ABCB5 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human ABCB5 Ile141-Val247 Accession # Q2M3G0
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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