

#### DESCRIPTION

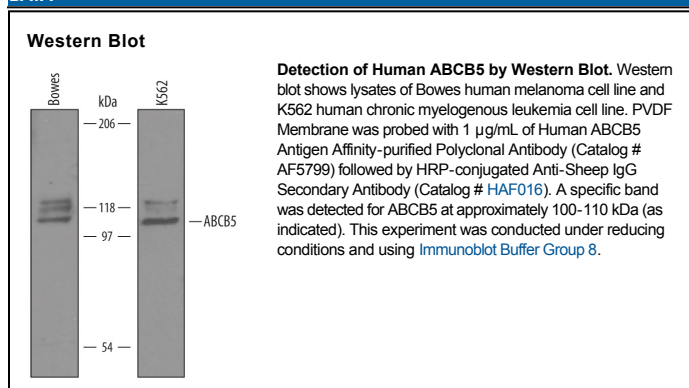
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human ABCB5 in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human ABCB5 Ile141-Val247 Accession # Q2M3G0
<b>Formulation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

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below

#### DATA



#### PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The 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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

#### 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.