

DESCRIPTION

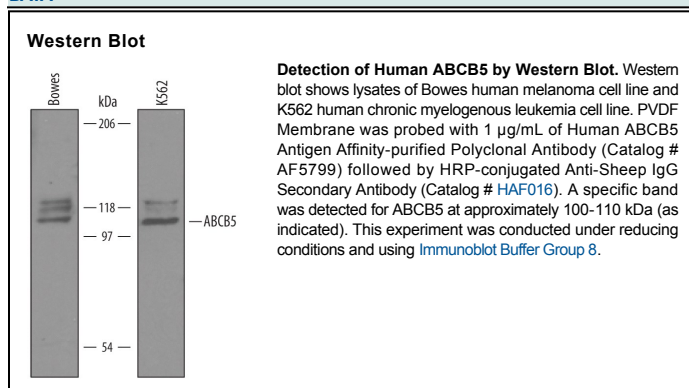
| | |
|---------------------------|---|
| Species Reactivity | Human |
| Specificity | Detects human ABCB5 in direct ELISAs and Western blots. |
| Source | Polyclonal Sheep IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | <i>E. coli</i> -derived recombinant human ABCB5 Ile141-Val247 Accession # Q2M3G0 |
| 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 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



PREPARATION AND STORAGE

| | |
|--------------------------------|--|
| Reconstitution | Reconstitute at 0.2 mg/mL in sterile PBS. |
| Shipping | 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 |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 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.