



Recombinant Protein Technical Manual

Recombinant Human ABCB5 Protein (Trx Tag)

RPES3083

Product Data:

Product SKU: RPES3083

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q2M3G0

Protein Information:

Molecular Mass: 29.4 kDa

AP Molecular Mass: 30 kDa

Tag: N-Trx

Bio-activity:

Purity: > 85 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: ATP-binding cassette sub-family B member 5; P-glycoprotein ABCB5; ABCB5 P-gp; ABCB5;

Immunogen Information:

Sequence: Ile141-Val247

Background:

ATP-binding cassette sub-family B member 5(ABCB5) is a plasma membrane-spanning protein. ABCB5 is principally expressed in physiological skin and human malignant melanoma. ABCB5 has been suggested to regulate skin progenitor cell fusion and mediate chemotherapeutic drug resistance in stem-like tumor cell subpopulations in human malignant melanoma. It is commonly over-expressed on circulating melanoma tumour cells. Furthermore, the ABCB5+ melanoma- initiating cells were demonstrated to express FLT1 (VEGFR1) receptor tyrosine kinase which was functionally required for efficient xenograft tumor formation, as demonstrated by shRNA knockdown experiments.