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Datasheet for ABIN1692397

ABCB5 Protein (AA 141-247) (TRX tag)

Overview

Quantity:	50 µg
Target:	ABCB5
Protein Characteristics:	AA 141-247
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCB5 protein is labelled with TRX tag.

Product Details

Purpose:	Recombinant Human ATP-binding Cassette B5/ABCB5 (N-Trx)
Sequence:	MSDKIIHLTD DSFDTDVLKA DGAILVDFWA EWCGPCKMIA PILDEIADEY QGKLTVAKLN IDQNPGTAPK YGIRGIPTLL LFKNGEVAAT KVGALSKGQL KEFLDANLAG SGSGHMHMHHH HHSSGLVPRG SGMKETAAAK FERQHMDSPD LGTDDDDKAM AIRSADLIVT LKDGMLAEKG AHAELMAKRG LYYSLVMSQD IKKADEQMES MTYSTERKTN SLPLHSVKSI KSDFIDKAE STQSKEISLP EVSLLKILKL NKPEWPFV
Characteristics:	Recombinant Human ATP-binding cassette sub-family B member 5/ABCB5 is produced with our E. coli expression system. The target protein is expressed with sequence (Ile141-Val247) of Human ABCB5 fused with a Trx tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	ABCB5
Alternative Name:	ABCB5 (ABCB5 Products)
Sub Type:	Fusionprotein
Background:	<p>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.</p> <p>Alternative Names: ATP-binding cassette sub-family B member 5, P-glycoprotein ABCB5, ABCB5 P-gp, ABCB5,</p>
Molecular Weight:	29.4 kDa
UniProt:	Q2M3G0

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH2O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB,150 mM NaCl, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	<p>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>
Expiry Date:	5 months