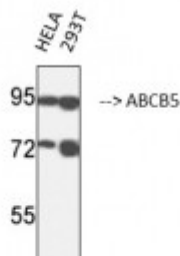


Anti-ABCB5 antibody



Western Blot (WB) analysis of 1. HELA 2. 293T cells using ABCB5 Monoclonal Antibody. (STJ96976)



Description

ABCB5 is a protein encoded by the ABCB5 gene which is approximately 138,6 kDa. ABCB5 is localised to the cell membrane. It is involved in CDK-mediated phosphorylation, the removal of Cdc6 and the transport of glucose, bile salts, metal ions and amine compounds. This protein falls under the ATP-binding cassette transporter superfamily of integral membrane proteins. It participates in ATP-dependent transmembrane transport of structurally diverse molecules ranging from small ions, sugars, and peptides to more complex organic molecules. ABCB5 is expressed in the skin. Mutations in the ABCB5 gene may result in malignant conjunctival melanoma. STJ96976 was developed from clone 11A2 and was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen. This antibody detects endogenous ABCB5 proteins.

Model	STJ96976
Host	Mouse
Reactivity	Human
Applications	WB
Immunogen	Synthetic Peptide
Gene ID	340273
Gene Symbol	ABCB5
Dilution range	WB 1:2000
Specificity	The antibody detects endogenous ABCB5 proteins.
Tissue Specificity	Expressed by CD133-expressing progenitor cells among epidermal melanocytes (at protein level). Widely expressed with specific expression in

pigment cells. Highly expressed in several malignant tissues: highly expressed in clinical melanomas, with low expression in normal skin. In melanoma, marks malignant melanoma-initiating cells (MMIC), in which clinical virulence resides as a consequence of unlimited self-renewal capacity, resulting in inexorable tumor progression and metastasis. Also highly expressed i

Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Clone ID	11A2
Note	For Research Use Only (RUO).
Protein Name	ATP-binding cassette sub-family B member 5 ABCB5 P-gp P-glycoprotein ABCB5
Clonality	Monoclonal
Conjugation	Unconjugated
Isotype	IgG1
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:460MIM:611785
Alternative Names	ATP-binding cassette sub-family B member 5 ABCB5 P-gp P-glycoprotein ABCB5
Function	Drug efflux transporter present in a number of stem cells that acts as a regulator of cellular differentiation. Able to mediate efflux from cells of the rhodamine dye and of the therapeutic drug doxorubicin. Specifically present in limbal stem cells, where it plays a key role in corneal development and repair.
Cellular Localization	Cell membrane