

Certificate of Analysis

Product: Affinity Purified Anti-ABCB6 (Rabbit)

Code: 600-401-945

Lot #: 17814

Size: 100 µg

Physical State: Liquid (sterile filtered)

Antibody Concentration: 1.37 mg/ml (by UV absorbance at 280 nm)

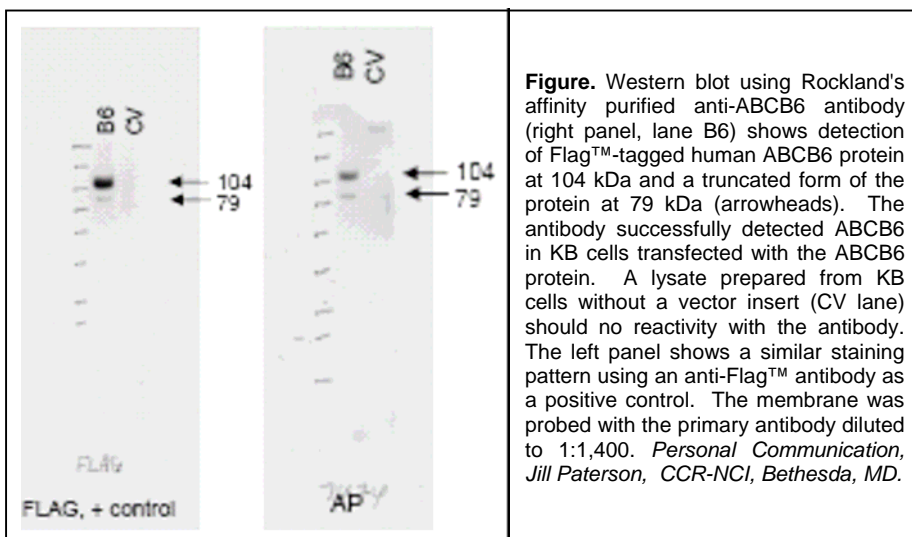
Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Stabilizer: None

Preservative: 0.01% (w/v) Sodium Azide

Storage Conditions: Store vial at -20° C prior to opening. Dilute only prior to immediate use. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Expiration date is one (1) year from date of opening.

Background Information: ABCB6 (ATP-binding cassette sub-family B member 6, also known as mitochondrial precursor ABC transporter 3, Mt-ABC transporter 3, and ABC transporter umat) is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABCB6 is a membrane-associated protein that transports various molecules across the extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, DR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily confer multi-drug resistance (MDR) to cancer cells and are also involved in antigen presentation. ABCB6 also likely plays a role in mitochondrial function. Localized to 2q26, this gene is considered a candidate gene for lethal neonatal metabolic syndrome, a disorder of mitochondrial function.



Recommended Dilutions:	ELISA	1:40,000 - 1:200,000
	WESTERN BLOT	1:1,000 - 1:5,000
	IF MICROSCOPY	User Optimized
	OTHER APPLICATION	User Optimized

Application Note(s): This affinity-purified antibody has been tested for use in ELISA and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 94 kDa in size corresponding to ABCB6 protein by western blotting in the appropriate cell lysate or extract.

Purity and Specificity: This affinity-purified antibody is directed against human ABCB6 protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross reactivity with ABCB6 protein from human and dog based on 100% homology with the immunizing sequence. Expect partial reactivity with ABCB6 from mouse and rat sources based on partial (~93%, 15/16) sequence homology. Reactivity against homologues from other sources is not known.

Immunogen: This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids 440-455 of human ABCB6 protein.

Relevant Links: NCBI [Q9NP58](#) Swis-Prot [Q9NP58](#)

Protein Sequence: Human ABCB6, 842 aa, predicted MW 93.9 kDa

1	mvtvgnyce	egpvgpawmq	dglspcfft	lvpstrmalg	tlalvlalpc	rrrerpagad
61	sllwagapri	spyvlqlla	tlqaalplag	lagrvgtarg	aplpsylla	svleslagac
121	glwllvvers	qarqrlamgi	wikfrhspgl	lllwtvafaa	enlalvswns	pqwwwaradl
181	gqqvqfslwv	lryvvsqglf	vlgllwapglr	pqsytllqvhe	edqdvrsqv	rsaaqqstwr
241	dfgrklrlis	gylwprgspa	lqlvvlclg	lmgleraln	lvpifyrniv	nlltekapwn
301	slawvtvsyv	flklqgggt	gstgfvsnlr	tflwirvqqf	tsrrvellif	shlhelslrw
361	hlgrtgevl	riadrgtssv	tgllsylvfn	viptladiii	giyfsmffn	awfglivflc
421	mslytlitlv	vtewrtkfr	amntqenatr	aravdsllnf	etvkyynaes	yeveryreal
481	ikyqglewks	saslvlntq	qnlvigll	agsllcayfv	teqklqvgyd	vlfgytiql
541	ymplnwfgty	yrmiqtnfid	menmfdllke	etevkdllpga	gplrfqkgr	efenvhfsya
601	dgretlqdv	ftvmpgqqla	lvpgsgagks	tiirllrfy	dissgcirid	gqdisqvtqa
661	slrshgvpv	qdtvlfndti	adnirygrvt	agndeveaaa	qaagihdaim	afpegyrtqv
721	gergiklsgg	ekqrvaiaart	ilkapgiill	deatsaldts	neraiqasla	kvcanrttiv
781	vahlrstvvn	adqilvikdg	civgrghea	llsrggvvad	mwqlqqqqee	tsedtkpqt
841	er					

General References:

Mitsuhashi, N., Miki, T., Senbongi, H., Yokoi, N., Yano, H., Miyazaki, M., Nakajima, N., Iwanaga, T., Yokoyama, Y., Shibata, T. and Seino, S. (2000) MTABC3, a novel mitochondrial ATP-binding cassette protein involved in iron homeostasis. *J. Biol. Chem.* **275** (23), 17536-17540.

Related Products:

#611-703-127	Peroxidase Conjugated Affinity Purified Anti-RABBIT IgG (H&L) (DONKEY) MX10	
#611-132-122	IRDye800 Conjugated Affinity Purified Anti-RABBIT IgG (H&L) (GOAT) MX10	
#B501-0500	500 g	BLOTTO
#BSA-30	500 ml	30% BOVINE SERUM ALBUMIN SOL'N in 0.85% sodium chloride (no preservative or stabilizer)
#B304	10 ml	NORMAL GOAT SERUM (NGS)
#KIA-003	MaxTag™ Anti-RABBIT IgG Kit for Immunoblotting	
#MB-070	Blocking Buffer for Fluorescent Western Blotting	

USDA Certification: All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation.

Note: This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information.