



Anti-ABCB1 polyclonal antibody (CPBT-65072RH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

This product detects CD243, also known as MDR1 (multi-drug resistance protein 1) and P-glycoprotein. CD243 is a 170kDa membrane-associated protein which functions as an ATP-dependent drug efflux pump with broad substrate specificity. CD243 is highly expressed in the kidney, liver, adrenal gland and intestine, suggesting a primary role in the secretion of metabolites into bile, urine and the lumen of the intestinal tract. CD243 also prevents the accumulation of toxic compounds in critical organs such as the brain, gonads, and bone marrow, and also functions in the placenta to protect the foetus. CD243 is rapidly up-regulated by chemotherapeutic drugs and is a well established mediator of multidrug resistance.

Specificity	ABCB1
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Conjugate	Unconjugated
Applications	IHC-P
Format	Purified IgG - liquid
Size	50 µg
Preservative	0.09% Sodium Azide
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	ABCB1 ATP-binding cassette, sub-family B (MDR/TAP), member 1 [Homo sapiens (human)]
Official Symbol	ABCB1
Synonyms	ABCB1; ATP-binding cassette, sub-family B (MDR/TAP), member 1; CLCS; MDR1; P-GP; PGY1; ABC20; CD243; GP170; multidrug resistance protein 1; P-glycoprotein 1; colchicin sensitivity; doxorubicin resistance;
Entrez Gene ID	5243
Protein Refseq	NP_000918
UniProt ID	P08183
Chromosome Location	7q21.12
Pathway	ABC transporters; ABC-family proteins mediated transport; Abacavir transmembrane transport; Abacavir transport and metabolism; Bile secretion; Codeine and morphine metabolism; Drug Induction of Bile Acid Pathway; HIF-1-alpha transcription factor network;
Function	ATP binding; ATPase activity, coupled to transmembrane movement of substances; protein binding; transporter activity; xenobiotic-transporting ATPase activity;