

Product datasheet for **AM05632PU-N**

P Glycoprotein (ABCB1) Mouse Monoclonal Antibody [Clone ID: UIC2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	UIC2
Applications:	FC, IF, IHC, IP
Recommended Dilution:	Immunoprecipitation. Immunofluorescence. Flow Cytometry: Use 10 µl of 1/20-1/200 diluted MDR1/CD243 antibody to label 1x10 ⁶ cells in 100 µl. . Immunohistochemistry on Frozen Sections. Immunohistochemistry on Paraffin Sections: 1/200. This product may benefit from antigen retrieval using heat treatment prior to staining of paraffin sections; Sodium citrate buffer pH 6.0 is recommended for this purpose (Re.3,4). <i>Positive Control:</i> Human Kidney.
Reactivity:	Human, Monkey
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Mouse Balb/c 3T3 fibroblasts transfected with human CD243 cDNA.
Specificity:	This Monoclonal antibody specifically recognises an extracellular conformational epitope of CD243. Clone <i>UIC2</i> can be used in a shift assay to selectively demonstrate the expression and functional activity of CD243 in a target cell (See Ref.2). Clone <i>UIC2</i> does not cross-react with mitochondrial pyruvate carboxylase. Clone <i>UIC2</i> is a strong inhibitor of CD243-mediated efflux and of the resistance of MDR cells to CD243 transported cytotoxic drugs. We recommend the use of Azide Free CD243 Antibody for Functional Studies.
Formulation:	Phosphate buffered saline pH 7.4 State: Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific



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Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	ATP binding cassette subfamily B member 1
Database Link:	Entrez Gene 5243 Human P08183
Background:	CD243 is also known as MDR1 (multi-drug resistance protein 1) and Pgp (P-glycoprotein), a transmembrane protein and member of the ABC transporter (ATP-binding cassette) family, which acts as an active efflux pump for a diverse range of lipophilic compounds. CD243 is expressed at low levels in the cell membrane of peripheral blood leucocytes, and constitutively expressed on the apical plasma membrane of excretory epithelial cells of the kidney, liver, brain and small intestine. CD243 mediates resistance to many chemotherapeutic agents used for tumour suppression and is therefore of special interest to oncologists.
Synonyms:	Multidrug resistance protein 1, P-glycoprotein 1, ABCB1, PGY1