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DATA SHEET

Mouse Anti-Multi-Drug Resistance (MDR1)/ABCB1/P-Glycoprotein [D-11]: MC0195, MC0195RTU7

Intended Use: For Research Use Only

Description: Multi-Drug Resistance Marker (P-Glycoprotein) is a 170 kD cell membrane protein of the multi-drug resistance gene, MDR-1. Studies have linked the presence of P-Glycoprotein with resistance to a wide variety of chemotherapeutic agents. P-Glycoprotein is also found in various concentrations in most normal tissues, suggesting that the primary role for this protein is in normal secretion of physiological metabolites.

Specifications

Clone:	D-11
Source:	Mouse
Isotype:	IgG2b/k
Reactivity:	Human, mouse, rat
Immunogen:	Human MDR1 aa 1040-1280
Localization:	Membrane, cytoplasm
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, ELISA, ICC/IF, IP, WB

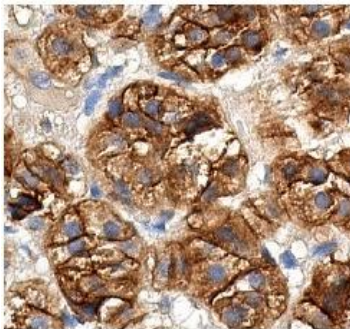
Package:

Description	Catalog No.	Size
Multi-Drug Resistance (MDR1)/ABCB1/P-Glycoprotein Concentrated	MC0195	1 ml
Multi-Drug Resistance (MDR1)/ABCB1/P-Glycoprotein Prediluted	MC0195RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Adrenal gland
Concentrated Dilution:	50-250
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human adrenal gland tissue showing membrane and cytoplasmic staining of glandular cells

References:

1. Elevated cellular PpIX potentiates sonodynamic therapy in a mouse glioma stem cell-bearing glioma model by downregulating the Akt/NF-κB/MDR1 pathway. Shono, K., et al. Sci Rep. 11: 15105, 2021.
2. Regulation of ABCB1 activity by microRNA-200c and microRNA-203a in breast cancer cells: the quest for microRNAs' involvement in cancer drug resistance. Armada, A.|Gomes, BC.|Viveiros, M.|Rueff, J.|Rodrigues, AS.| et al. 2019. Cancer Drug Resist. 2: 897-911.

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