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SANTA CRUZ BIOTECHNOLOGY, INC.

Mdr-3 (P3-II-26): sc-551480

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Cells selected for resistance to a single cytotoxic drug may become cross-resistant to a broad range of drugs with different structures and cellular targets. This phenomenon is called multiple drug resistance (MDR). MDR proteins (Mdrs) are members of a highly conserved superfamily of ATP-binding cassette transport proteins. Mdr-3, also known as ABCB4, is a member of the Mdr family that may be associated with a more malignant phenotype in B cell lymphocytic leukemias. The human Mdr-3 gene, which is known as ABCB4 maps to chromosome 7q21.12. The mouse homolog of Mdr-3 is designated Mdr-2.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ABCB4 (human) mapping to 7q21.12.

SOURCE

Mdr-3 (P3-II-26) is a mouse monoclonal antibody raised against amino acids 629-692 of Mdr-3 of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2b} in 1.0 ml of PBS with 0.1% stabilizer protein and 0.02% sodium azide.

APPLICATIONS

Mdr-3 (P3-II-26) is recommended for detection of Mdr-3 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10^6 cells); non cross-reactive with human Mdr-1.

Suitable for use as control antibody for Mdr-3 siRNA (h): sc-37015, Mdr-3 shRNA Plasmid (h): sc-37015-SH and Mdr-3 shRNA (h) Lentiviral Particles: sc-37015-V.

Molecular Weight of Mdr-3: 141 kDa.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.