SANTA CRUZ BIOTECHNOLOGY, INC.

CD53 (HD77): sc-73365



BACKGROUND

The CD53 antigen is a member of the tetraspanin membrane protein family that is expressed in the lymphoid-myeloid lineage. The tetraspanin superfamily (CD9, CD37, CD53, CD63, CD81 and CD82) comprises a group of cell-surface proteins that are involved in cell activation and signal transduction as well as in cell adhesion, motility and metastasis. Tetraspanin transmembrane proteins have a metastasis suppressor effect by acting as cell motility brakes in tumor cells. Human neutrophils express high levels of CD53, an N-glycosylated panleukocyte antigen, and the true homolog of the rat MRC-0X-44 antigen. CD53 is expressed on B cells, monocytes, macrophages, neutrophils, single (CD4 or CD8) positive thymocytes and peripheral T cells. The CD53 gene maps to human chromosome 1p21-p13.3.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CD53 (human) mapping to 1p13.

SOURCE

CD53 (HD77) is a mouse monoclonal antibody raised against Leukemia cells of human origin.

PRODUCT

Each vial contains 200 $\mu g~lgG_1$ in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

CD53 (HD77) is recommended for detection of CD53 on normal and neoplastic white blood cells of human origin by immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 μ g per 1 x 10⁶ cells).

Suitable for use as control antibody for CD53 siRNA (h): sc-42796; and as shRNA Plasmid control antibody for CD53 shRNA Plasmid (h): sc-42796-SH.

Molecular Weight of CD53: 32-45 kDa.

STORAGE

Store at 4° C, **D0 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.