CD53 (202-24b): sc-21778



The Power to Question

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 pan-leukocyte antigen and the true homolog of the rat MRC-OX-44 antigen. CD53 is expressed on B cells, monocytes, macrophages, neutrophils, single (CD4 or CD8) positive thymocytes and peripheral T cells.

REFERENCES

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STORAGE

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

PROTOCOLS

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

CHROMOSOMAL LOCATION

Genetic locus: CD53 (human) mapping to 1p13.3.

SOURCE

CD53 (161-2) is a mouse monoclonal antibody raised against stimulated human leukocytes.

PRODUCT

Each vial contains 200 μ g lgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CD53 (202-24b) is available conjugated to either phycoerythrin (sc-21778 PE) or fluorescein (sc-21778 FITC), 200 μ g/ml, for IF, IHC(P) and FCM.

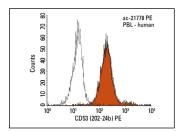
APPLICATIONS

CD53 (202-24b) is recommended for detection of CD53 of human origin by flow cytometry (1 μ g per 1 x 10⁶ cells).

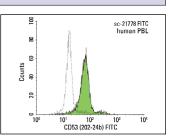
Suitable for use as control antibody for CD53 siRNA (h): sc-42796, CD53 shRNA Plasmid (h): sc-42796-SH and CD53 shRNA (h) Lentiviral Particles: sc-42796-V.

Molecular Weight of CD53: 32-45 kDa.

DATA







CD53 (202-24b) FITC: sc-21778 FITC. FCM analysis of human peripheral blood leukocytes. Black line histogram represents the isotype control, normal mouse IoG. FITC: sc-2855.

RESEARCH USE

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