SANTA CRUZ BIOTECHNOLOGY, INC.

CD101 (4j29): sc-70525

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

CD101 is a disulfide-linked homodimeric polypeptide. The gene coding the CD101 antigen is identical to the gene coding for the V7 antigen, which corresponds to a type I transmembrane protein containing seven Ig-like loops in its extracellular domain. CD101 (V7) may play an important regulatory role during T cell activation and may also be useful in combination with other markers for the diagnosis of LCH (Langerhans cell histiocytosis). CD101 is expressed on monocytes, granulocytes, dendritic cells and at low levels on a subset of peripheral T-cells comprising both $CD4^+$ and $CD8^+$, as well as both $CD45RA^+$ and $CD45RO^+$ cells. Expression of CD101 increases upon T cell activation.

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CHROMOSOMAL LOCATION

Genetic locus: CD101 (human) mapping to 1p13.1.

SOURCE

CD101 (4j29) is a mouse monoclonal antibody raised against thymic clone B12 of human origin.

PRODUCT

Each vial contains 100 µg IgG_1 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

CD101 (4j29) is recommended for detection of CD101 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).

Suitable for use as control antibody for CD101 siRNA (h): sc-42819, CD101 shRNA Plasmid (h): sc-42819-SH and CD101 shRNA (h) Lentiviral Particles: sc-42819-V.

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.