SANTA CRUZ BIOTECHNOLOGY, INC.

B7RP-1 (ANC4E3): sc-66093

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

T cell costimulatory molecule, inducible costimulator (ICOS)/B7-related protein-1 (B7RP-1, B7-H2, GL50, ICOS-L) is a ligand for the ICOS receptor that initiates T and B cell proliferation and cytokine secretion. B7RP-1 interactions play an essential role in T cell dependent B cell activation in peripheral lymphoid organs such as spleen and lymph nodes. B7RP-1 protein is present in myeloid leukocytes and by Northern blot there are 2.4, 3.0 and 7.0 kb transcripts in brain, heart, kidney and liver, with lower expression in colon and thymus and a 1.1 kb transcript in leukocytes. Tumor necrosis factor α (TNFα), granulocyte-macrophage colony-stimulating factor (GM-CSF) and interleukin-4 (IL-4) enhance B7RP-1 expression. LPS-induced upregulation of B7RP-1 is dependent on the MyD88-dependent signaling pathway.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ICOSLG (human) mapping to 21q22.3; Icoslg (mouse) mapping to 10 C1.

SOURCE

B7RP-1 (ANC4E3) is a mouse monoclonal antibody raised against Raji cells and recombinant B7RP-1 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

B7RP-1 (ANC4E3) is recommended for detection of B7RP-1 of human origin by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for B7RP-1 siRNA (h): sc-42768.

Molecular Weight of B7RP-1: 36 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 or our catalog for detailed protocols and support products.