

B7RP-1 (HK5.3): sc-58918

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 (TNF α), granulocyte-macrophage colony-stimulating factor (GM-CSF) and interleukin 4 (IL-4) enhance B7RP-1 expression. LPS induced up regulation of B7RP-1 is dependent on the MyD88 dependent signaling pathway.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: *Icosl* (mouse) mapping to 10 C1.

SOURCE

B7RP-1 (HK5.3) is a rat monoclonal antibody raised against a mouse B7RP-1 transfected cell line.

PRODUCT

Each vial contains 200 μ g IgG_{2a} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

B7RP-1 (HK5.3) is recommended for detection of B7RP-1 of mouse origin by flow cytometry (1 μ g per 1 x 10⁶ cells).

Suitable for use as control antibody for B7RP-1 siRNA (m): sc-42769, B7RP-1 shRNA Plasmid (m): sc-42769-SH and B7RP-1 shRNA (m) Lentiviral Particles: sc-42769-V.

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 for detailed protocols and support products.