B7RP-1 (M-300): sc-25587



The Power to Question

BACKGROUND

T-cell co-stimulatory molecule, inducible co-stimulator (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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- Liyama, R., et al. 2003. The role of inducible co-stimulator (ICOS)/B7-related protein-1 (B7RP-1) interaction in the functional development of Peyer's patches. Immunol. Lett. 88: 63-70.
- 5. Wahl, P., et al. 2003. Interaction of B7RP-1 with ICOS negatively regulates antigen presentation by B cells. Inflammation 27: 191-200.
- 6. Gajewska, B.U., et al. 2005. B7RP-1 is not required for the generation of Th2 responses in a model of allergic airway inflammation but is essential for the induction of inhalation tolerance. J. Immunol. 174: 3000-3005.
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CHROMOSOMAL LOCATION

Genetic locus: Icoslg (mouse) mapping to 10 C1.

SOURCE

B7RP-1 (M-300) is a rabbit polyclonal antibody raised against amino acids 23-322 of B7RP-1 of mouse origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

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.

APPLICATIONS

B7RP-1 (M-300) is recommended for detection of B7RP-1 of mouse and rat 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 solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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.

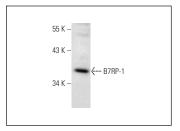
Molecular Weight of B7RP-1: 36 kDa.

Positive Controls: mouse spleen extract: sc-2391 or I-11.15 whole cell lysate: sc-364370.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



B7RP-1 (M-300): sc-25587. Western blot analysis of B7RP-1 expression in I-11.15 whole cell lysate.

PROTOCOLS

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



Try **B7RP-1 (HK5.3): sc-58918**, our highly recommended monoclonal alternative to B7RP-1 (M-300).