# SANTA CRUZ BIOTECHNOLOGY, INC.

# ICOS (151-9): sc-53020



BACKGROUND

T cell proliferation and lymphokine production are triggered by occupation of the TCR by antigen, followed by a costimulatory signal that is delivered by a ligand expressed on antigen presenting cells. The B7-related cell surface proteins CD80 (B7-1) and CD86 (B7-2) are expressed on antigen presenting cells. CD80 and CD86 bind to the homologous T cell receptors CD28 and CTLA-4 (cytotoxic T lymphocyte-associated protein-4) and trigger costimulatory signals for optimal T cell activation. CTLA-4 shares 31% overall amino acid identity with CD28 and it has been proposed that CD28 and CTLA-4 are functionally redundant. ICOS (inducible co-stimulator) is related to CD28 and CTLA-4, and these three proteins are thought to compose a receptor family. ICOS stimulation enhances T cell responses and superinduces the synthesis of IL-10, but it does not induce IL-2 upregulation.

#### REFERENCES

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#### CHROMOSOMAL LOCATION

Genetic locus: lcos (mouse) mapping to 1 C2.

#### SOURCE

ICOS (151-9) is a Syrian hamster monoclonal antibody raised against the ectodomain of ICOS of mouse origin.

# STORAGE

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

## PRODUCT

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

ICOS (151-9) is available conjugated to either phycoerythrin (sc-53020 PE) or fluorescein (sc-53020 FITC), 200  $\mu$ g/ml, for IF, IHC(P) and FCM.

# **APPLICATIONS**

ICOS (151-9) is recommended for detection of ICOS of mouse origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1  $\mu$ g per 1 x 10<sup>6</sup> cells).

Suitable for use as control antibody for ICOS siRNA (m): sc-42771, ICOS shRNA Plasmid (m): sc-42771-SH and ICOS shRNA (m) Lentiviral Particles: sc-42771-V.

Molecular Weight of ICOS monomer: 27 kDa.

Molecular Weight of ICOS homodimer: 55-60 kDa.

# **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.