**BACKGROUND**

Interleukin-13, or IL-13, is a pleiotropic cytokine that exhibits 30% sequence identity with IL-4 and shares many of the same biological activities. Like IL-4, IL-13 affects monocytes, macrophages and B cells by upregulating the expression of CD23 and MHC proteins, and downregulating the expression of CD14. Both IL-4 and IL-13 are secreted by activated T lymphocytes and are powerful regulators of inflammation. Both inhibit the secretion of proinflammatory cytokines and chemokines from activated monocytes and stimulate the expression of IgE on activated B cells. IL-13 contains five cysteine residues and multiple N-linked glycosylation sites and has been reported to inhibit the production of IL-2 in natural killer cells. IL-13 cDNA encodes a 131 amino acid precursor with a 20 amino acid signal peptide which is cleaved to generate a mature protein.

**CHROMOSOMAL LOCATION**

Genetic locus: Il13 (mouse) mapping to 11 B1.3.

**SOURCE**

IL-13 (A-9) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 87-112 at the C-terminus of IL-13 of mouse origin.

**PRODUCT**

Each vial contains 200 μg IgGκ kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

IL-13 (A-9) is available conjugated to agarose (sc-393365 AC), 500 μg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393365 HRP), 200 μg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-393365 PE), fluorescein (sc-393365 FITC), Alexa Fluor® 488 (sc-393365 AF488), Alexa Fluor® 546 (sc-393365 AF546), Alexa Fluor® 594 (sc-393365 AF594) or Alexa Fluor® 647 (sc-393365 AF647), 200 μg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-393365 AF680) or Alexa Fluor® 790 (sc-393365 AF790), 200 μg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-393365 P, (100 μg peptide in 0.5 ml PBS containing <0.1% sodium azide and 0.2% stabilizer protein).

**APPLICATIONS**

IL-13 (A-9) is recommended for detection of IL-13 of mouse origin by Western Blotting (starting dilution 1:100, 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 IL-13 siRNA (m): sc-39643, IL-13 shRNA Plasmid (m): sc-39643-SH and IL-13 shRNA (m) Lentiviral Particles: sc-39643-V.

**MOLECULAR Weight of IL-13: 13 kDa.**

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**STORAGE**

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

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

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

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