**IL-10 (3C12C12): sc-32815**

**BACKGROUND**

Interleukin-10, or IL-10, is a 178 amino acid protein that is primarily secreted by TH2 clones. IL-10 has dual functions, the first of which is the suppression of cytokine production by TH1 clones responding to antigen presented by monocyte and macrophage antigen presenting cells (APCs). The second function consists of the inhibition of response of cytokine targeted cells, possibly by the downregulation of CD25 (the IL-2 receptor) on macrophages and B lymphocytes. Human and murine IL-10 exhibit 81% sequence identity at the amino acid level and share 73% identity at the cDNA level. Both human and murine IL-10 are acid-labile and exist as non-covalently-linked homodimers in solution. IL-10 exerts its biological activity through the IL-10 receptor (IL-10R), a glycoprotein whose expression can be induced in cultured macrophages and fibroblasts by lipopolysaccharide (LPS) stimulation. IL-10 expression has been shown to be elevated in HIV-1 infected individuals and has been implicated in the progression of the disease.

**CHROMOSOMAL LOCATION**

Genetic locus: IL10 (human) mapping to 1q32.1; IL10 (mouse) mapping to 1 E4.

**SOURCE**

IL-10 (3C12C12) is a mouse monoclonal antibody raised against recombinant human IL-10.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

IL-10 (3C12C12) is available conjugated to agarose (sc-32815 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-32815 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-32815 PE), fluorescein (sc-32815 FITC), Alexa Fluor® 488 (sc-32815 AF488), Alexa Fluor® 546 (sc-32815 AF546), Alexa Fluor® 594 (sc-32815 AF594) or Alexa Fluor® 647 (sc-32815 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-32815 AF680) or Alexa Fluor® 790 (sc-32815 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

IL-10 (3C12C12) is recommended for detection of IL-10 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:10000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

Suitable for use as control antibody for IL-10 siRNA (h): sc-39634, IL-10 siRNA (m): sc-39635, IL-10 shRNA Plasmid (h): sc-39634-SH, IL-10 shRNA Plasmid (m): sc-39635-SH, IL-10 shRNA (h)Lentiviral Particles: sc-39634-V and IL-10 shRNA (m) Lentiviral Particles: sc-39635-V.

Molecular Weight of IL-10 monomer: 20 kDa.

Molecular Weight of IL-10 dimer: 37 kDa.

**STORAGE**

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

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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