

IL-10 (23738.11): sc-57244

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 interleukin-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 560 amino acid, 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.

REFERENCES

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CHROMOSOMAL LOCATION

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

SOURCE

IL-10 (23738.11) is a mouse monoclonal antibody raised against full length IL-10 of human origin.

PRODUCT

Each vial contains 100 μ g IgG_{2b} in 1.0 ml of PBS with < 0.1% sodium azide and protein stabilizer.

APPLICATIONS

IL-10 (23738.11) is recommended for detection of IL-10 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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

Molecular Weight of IL-10 monomer: 20 kDa.

Molecular Weight of IL-10 dimer: 37 kDa.

SELECT PRODUCT CITATIONS

- He, X.T., Li, X., Yin, Y., Wu, R.X., Xu, X.Y. and Chen, F.M. 2017. The effects of conditioned media generated by polarized macrophages on the cellular behaviours of bone marrow mesenchymal stem cells. *J. Cell. Mol. Med.* E-published.

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.



See **IL-10 (E-10): sc-8438** for IL-10 antibody conjugates, including AC, HRP, FITC, PE, Alexa Fluor[®] 488, Alexa Fluor[®] 546, Alexa Fluor[®] 594, Alexa Fluor[®] 647, Alexa Fluor[®] 680 and Alexa Fluor[®] 790.