

IL-23 Antibody

IL-23 (CT): Interleukin-23, IL-23 p19, SGRF

CATALOG NO.: 3793

BACKGROUND:

Like interleukin-27 (IL-27), IL-23 is a recently discovered member of the IL-6/IL-12 family of proinflammatory and immunoregulatory cytokines (1). It exists as a heterodimer composed of the IL-12p40 subunit and a novel p19 subunit (2). IL-23 is secreted by activated dendritic cells, macrophages, and monocytes (3,4). Its biological activities include enhancing the proliferation of memory T cells and the production of IFN- γ , IL-12, and TNF- α from activated T cells (2), and can stimulate macrophages to produce TNF- α and nitric oxide (5). It has also been shown to possess potent anti-tumor and anti-metastatic activity in mouse models of cancer (5), suggesting a potential role for IL-23 in therapeutic treatment of cancer.

SOURCE:

Rabbit polyclonal IL-23 antibody was raised against a 14 amino acid peptide from near the carboxy terminus of human IL-23 (Genbank accession No. AAH66268).

APPLICATION:

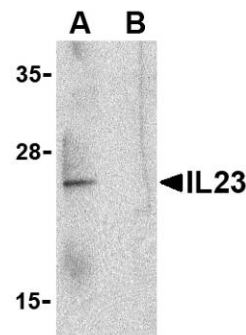
IL-23 antibody can be used for the detection of IL-23 by Western blot at 2 – 4 μ g/ml. (Optimal dilution should be determined by user.) Raji cell lysate can be used as positive control. IL-23 antibody is human and mouse reactive. **This product is for research use only.**

STORAGE:

IL-23 antibody is supplied as immunoaffinity purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.

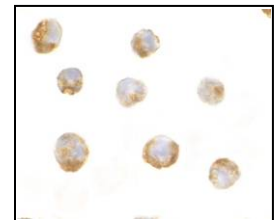
RELATED PRODUCTS:

Blocking peptide, Catalog No. **3793P**.
Raji Cell Lysate, Catalog No. **1207**.
IL-23 Antibody (NT), Catalog No. **3795**.
IL-27 Antibody (NT), Catalog No. **3797**.
IL-27 Antibody (IN), Catalog No. **3799**.



Western blot analysis of IL-23 in Raji lysate with IL-23 antibody at 1 μ g/ml in the (A) absence and (B) presence of blocking peptide.

Immunocytochemistry of IL-23 in Raji cells with IL-23 antibody at 10 μ g/ml.



REFERENCES:

1. Hunter CA. New IL-12-family members: IL-23 and IL-27, cytokines with divergent functions. *Nat. Rev. Immunol.* 2005; 5:521-31.
2. Oppmann B, Lesley R, Blom B, et al. Novel p19 protein engages IL-12p40 to form a cytokine, IL-23, with biological activities similar as well as distinct from IL-12. *Immunity* 2000; 13:715-25.
3. Sheibanie AF, Tadmori I, Jing H, et al. Prostaglandin ED induces IL-23 production in bone marrow-derived dendritic cells. *FASEB J.* 2004; 18:1318-20.
4. Pirhonen J, Matikainen S, Julkunen I. Regulation of virus-induced IL-12 and IL-23 expression in human macrophages. *J. Immunol.* 2002; 169:5673-8.
5. Hao J-S and Shan B-E. Immune enhancement and anti-tumor activity of IL-23. *Cancer Immunol. Immunother.* 2006; 55:1426-31. (06-01D)