

**PP1034B2****Polyclonal Antibody to Interleukin-13 / IL13 - Biotin****Alternate names:**

IL-13, NC30

**Quantity:**

50 µg

**Background:**

Human IL13 was originally identified by differential screening of an anti CD28 activated human peripheral blood mononuclear cell cDNA library as an induction specific novel cytokine. It was also isolated from cDNA libraries of human T cell clones using the murine IL13 (P600) cDNA as a probe. Human IL13, a pleiotropic cytokine, is produced by activated Th0, Th1 like, Th2 like, and CD8 T cells. The gene for human IL13 maps to chromosome 5 and is closely linked to the genes for IL3, IL4, IL5, and GMCSF.

IL13 inhibits proinflammatory cytokine production and stimulates antibody production. It induces proliferation in the human pre myeloid cell line TF1. IL13 has multiple effects on the differentiation and functions of monocytes and macrophages. It suppresses cytotoxic functions and induces changes in the morphology of human monocytes and in the phenotype of human monocytes and B cells by upregulating MHC class II expression. IL13 will also decrease the production of nitric oxide by activated murine macrophages, leading to impaired parasitocidal activity. Human and mouse interleukin 13 share approximately 58% amino acid sequence identity. Although human and mouse IL13 are equally active on human cells, human IL13 is much less active than mouse IL13 on mouse cells. Human IL13 and human IL4 also share approximately 30% sequence homology and have similar biological functions.

**Uniprot ID:**[P35225](#)**NCBI:**[NP\\_002179.2](#)**GenEID:**[3596](#)**Host:**

Rabbit

**Immunogen:**

Highly pure (&gt;98%) recombinant hIL-13 (human IL-13).

**Format:****State:** Lyophilized purified Ig fraction.**Purification:** Affinity chromatography.**Buffer System:** PBS, pH 7.2 without preservatives.**Label:** Biotin – conjugated**Reconstitution:** Restore in sterile PBS containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.**Applications:**

**ELISA:** To detect hIL-13 by direct ELISA (using 100 µl/well antibody solution) this antibody can be used at a concentration of 0.15 - 0.30 µg/ml. Used in conjunction with compatible secondary reagents, allows the detection of at least 0.2 ng/well of recombinant hIL-13.

**Western Blot:** To detect hIL-13 by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant hIL-13 is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Specificity:**

Reacts with Human IL-13.

**Add. Information:**

Centrifuge vial prior to opening!

**Storage:**

Store the antibody prior to reconstitution at -20°C. Following reconstitution the antibody can be stored at 2-8°C for one month or at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: One year from despatch.