

**PP1208B1****Polyclonal Antibody to IL18BP - Biotin****Alternate names:**

IL-18BP, Interleukin-18-binding protein, Tadekinig-alfa

**Quantity:**

25 µg

**Background:**

IL18 (IFN-gamma-inducing factor, IGIF) is a novel pro-inflammatory cytokine that augments natural killer (NK) activity in spleen cells. This cytokine can induce the IFN-gamma production of T cells. The combination of this cytokine and IL12 has been shown to inhibit IL4 dependent IgE and IgG1 production, and enhance IgG2a production of B cells. IL18 binding protein (IL18BP) can specifically interact with this cytokine, and thus negatively regulate its biological activity.

IL18 also has other biological properties such as stimulation of Fas ligand expression, and induction of CC and CXC chemokines. IL18 increases production of competent HIV. IL18 is related to the IL1 family. One of the IL18 receptor chains is the IL1 receptor-related protein, a member of the IL 1R family. Like IL1, IL18 is first synthesized as a leaderless precursor requiring the IL1 converting enzyme (ICE) for cleavage into an active molecule. IL18 may play a role in tissue injury in inflammatory reactions.

**Uniprot ID:**[Q9Z0M9](#)**NCBI:**[NP\\_034661](#)**GeneID:**[16068](#)**Host:**

Goat

**Immunogen:**Highly pure (>98%) *E.coli* derived recombinant Murine IL-18BP.**Format:****State:** Lyophilized (sterile filtered) purified Ig fraction.**Purification:** Affinity Chromatography.**Buffer System:** PBS, pH 7.2**Label:** Biotin**Reconstitution:** Restore in sterile PBS solution containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.**Applications:**

**Direct ELISA:** To detect Murine IL-18BP by Direct ELISA (using 100 µl/well antibody solution), this antibody can be used at a concentration of 0.25 - 1.0 µg/ml. This Biotin conjugated antibody allows the detection of at least 0.2 ng - 0.4 ng/well of recombinant Murine IL-18BP.

**Sandwich ELISA:** To detect Murine IL-18BP by Sandwich ELISA (using 100 µl/well antibody solution) this antibody can be used at a concentration of 0.25-1.0 µg/ml. Used in conjunction with Purified IL-18BP antibody (Cat.-No PP1208P) as a Capture antibody allows the detection of at least 0.2 ng - 0.4 ng/well of recombinant Murine IL-18BP.

**Western Blot:** To detect Murine IL-18BP 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 Murine IL-18BP 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:**

This antibody recognizes Mouse IL18BP

**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.