

IL-5 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51906

Product Information

| | |
|-------------------|------------------------|
| Application | WB |
| Primary Accession | P05113 |
| Reactivity | Human, Mouse, Rat |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 15238 |

Additional Information

| | |
|-------------|--|
| Gene ID | 3567 |
| Other Names | Interleukin-5, IL-5, B-cell differentiation factor I, Eosinophil differentiation factor, T-cell replacing factor, TRF, IL5 |
| Dilution | WB~~1:1000 |
| Format | 0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50% |
| Storage | Store at -20 °C.Stable for 12 months from date of receipt |

Protein Information

| | |
|-------------------|---|
| Name | IL5 |
| Function | Homodimeric cytokine expressed predominantly by T-lymphocytes and NK cells that plays an important role in the survival, differentiation, and chemotaxis of eosinophils (PubMed: 2653458 , PubMed: 9010276). Also acts on activated and resting B-cells to induce immunoglobulin production, growth, and differentiation (By similarity). Mechanistically, exerts its biological effects through a receptor composed of IL5RA subunit and the cytokine receptor common subunit beta/CSF2RB (PubMed: 1495999 , PubMed: 22528658). Binding to the receptor leads to activation of various kinases including LYN, SYK and JAK2 and thereby propagates signals through the RAS-MAPK and JAK-STAT5 pathways respectively (PubMed: 7613138). |
| Cellular Location | Secreted. |
| Tissue Location | Present in peripheral blood mononuclear cells. |

Background

Factor that induces terminal differentiation of late- developing B-cells to immunoglobulin secreting cells.

References

- Azuma C.,et al.Nucleic Acids Res. 14:9149-9158(1986).
Tanabe T.,et al.J. Biol. Chem. 262:16580-16584(1987).
Campbell H.D.,et al.Proc. Natl. Acad. Sci. U.S.A. 84:6629-6633(1987).
Yokota T.,et al.Proc. Natl. Acad. Sci. U.S.A. 84:7388-7392(1987).
Honjo T.,et al.Submitted (FEB-1992) to the EMBL/GenBank/DDBJ databases.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.