

IL-5 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51282

Product Information

Application	WB, IP, IHC-P
Primary Accession	P05113
Reactivity	Human
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
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human IL-5. The exact sequence is proprietary.
Dilution	WB~~1:1000 IP~~N/A IHC-P~~N/A
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.

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