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Anti-IL-5 Antibody

Catalog # AP51282

Product Information

Application	WB, IHC
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
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human IL-5. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

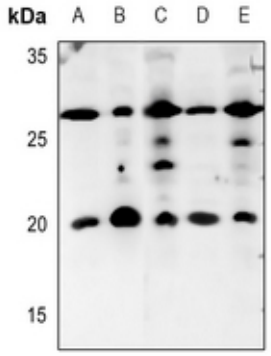
Protein Information

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.

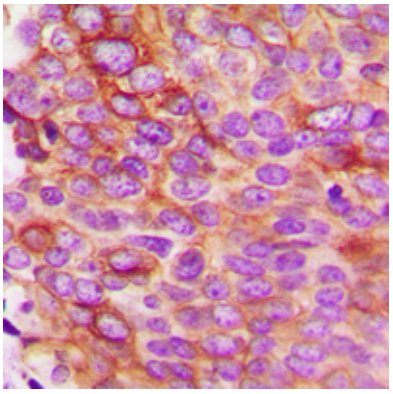
References

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.

Images



Western blot analysis of IL-5 expression in HEK293T (A), K562 (B), mouse liver (C), rat testis (D), rat liver (E) whole cell lysates. (Predicted band size: 15 kD; Observed band size: 20 kD)



Immunohistochemical analysis of IL-5 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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