



# Anti-Human IL-5

20150223ML



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>102-P35</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant human IL 5 (human Interleukin-5). Anti-human IL 5 specific antibody was purified by affinity chromatography employing immobilized human IL 5 matrix.

## Target Background

<b>Synonyms (Target):</b>	IL5; EDF; TRF; IL-5
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Interleukin 5 (IL-5) is a T cell-derived factor that promotes the proliferation, differentiation and activation of eosinophils. In mice, IL-5 is also a growth and differentiation factor for B cells. Various names previously used to describe IL-5 include: Tcell replacing factor (TRF), B cell growth factor II (BCGFII), B cell differentiation factor  $\mu$  (BCDF  $\mu$ ), eosinophil differentiation factor (EDF) and eosinophil colony-stimulating factor (Eo-CSF). Biologically active IL-5 is a disulfide-linked homodimer. Rat IL-5 is 94% and 70% identical to mouse and human IL-5, respectively.

### Database References Target

<b>Protein RefSeq:</b>	NP_000840.1
<b>Uniprot ID:</b>	P05113
<b>mRNA RefSeq:</b>	NM_000879

## Product Specifications

<b>Species reactivity</b>	Human
<b>Clone/Ab feature</b>	Rabbit IgG
<b>Cross reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal Antibody
<b>Purification</b>	Antigen-affinity purified
<b>Immunogen</b>	recombinant human IL-5
<b>Formulation</b>	lyophilized from PBS
<b>Reconstitution buffer</b>	water

**Reconstitution:** Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

**Stability:** The lyophilized antibody is stable for at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

### Applications

**Neutralization:** To yield one-half maximal inhibition [ $ND_{50}$ ] of the biological activity of hIL-5 (0.45 ng/ml), a concentration of 0.05 - 0.09 mg/ml of this antibody is required.

**Sandwich ELISA:** To detect human IL-5 by Sandwich ELISA (using 100ml/well antibody solution) a concentration of 0.5 - 2.0 mg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of 0.2 - 0.4 ng/well of recombinant human IL-5.

**Western Blot:** To detect human IL-5 by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 mg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant human IL-5 is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**