# ReliaTech GmbH



Specification/Data Sheet

# **Anti-Human IL-12**

20150223ML



#### FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Catno.:	102-P42G
Size:	100 μg
Lot. No.:	According to product label

**Preparation:** Produced from sera of goats pre-immunized with highly pure (>98%) recombinant human IL-12 (human Interleukin-12). Anti-human IL-12 specific antibody was purified by affinity chromatography employing immobilized human IL-12 matrix.

## **Target Background**

Interleukin 12 (IL-12), also known as natural killer cell stimulatory factor (NKSF) or cytotoxic lymphocyte maturation factor (CLMF), is a heterodimeric pleiotropic cytokine made up of a 40 kDa (p40) subunit and a 35 kDa (p35) subunit. The IL-12 p40 subunit is shared by IL-23, another heterodimeric cytokine that has biological activities similar to, as well as distinct from, IL-12. IL-12 is produced by macrophages and B cells and has been shown to have multiple effects on T cells and natural killer (NK) cells. While mouse IL-12 is active on both human and mouse cells, human IL-12 is not active on mouse cells.

#### **Database References Target**

Protein RefSeq:	NP_000873.2
Uniprot ID:	P29459
mRNA RefSeq:	NM_000882.3

## **Product Specifications**

Species reactivity	Human
Clone/Ab feature	Goat IgG
Cross reactivity	Human
Host	Goat
Clonality	Polyclonal Antibody
Purification	Antigen-affinity purified
Immunogen	Recombinant human IL-12
Formulation	lyophilized from PBS
Reconstitution buffer	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.



### **Applications**

**Neutralization:** To yield one-half maximal inhibition [ $ND_{50}$ ] of the biological activity of hIL-12 (0.3 ng/ml), a concentration of 0.012-0.02 µg/ml of this antibody is required.

**ELISA:** *Sandwich*: To detect human IL-12 by sandwich ELISA (using  $100 \,\mu$ l/well antibody solution) a concentration of  $0.5 - 2.0 \,\mu$ g/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of at least  $0.2 - 0.4 \,\mu$  ng/well of recombinant human IL-12.

Western Blot: To detect human IL-12 by Western Blot analysis this antibody can be used at a concentration of 0.1 -  $0.2~\mu g/ml$ . When used in conjunction with compatible secondary reagents the detection limit for recombinant human IL-12 is 1.-3.0~ng/lane, under either reducing or non-reducing conditions.

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