



Anti-Human IL-16

20150223ML



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	102-P45
Size:	100 µg
Lot. No.:	According to product label

Preparation: Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant human IL 16 (human Interleukin-16). Anti-human IL 16 specific antibody was purified by affinity chromatography employing immobilized human IL 16 matrix.

Target Background

Synonyms (Target):	IL16; LCF; NIL16; PRIL16; prIL-16
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Interleukin 16 (IL-16), also named lymphocyte chemoattractant factor (LCF), is a 14-17 kDa single chain non-glycosylated polypeptide that was originally identified as a CD8+ T cell-derived chemoattractant for CD4+ cells. The expression of IL-16 precursor mRNA has been detected in various tissues including spleen, thymus, lymph nodes, peripheral leukocytes, bone marrow and cerebellum. In addition to its chemotactic properties, IL-16 has also been shown to suppress HIV-1 replication in vitro.

Database References Target

Protein RefSeq:	NP_004504.3
Uniprot ID:	Q14005
mRNA RefSeq:	NM_004513

Product Specifications

Species reactivity	Human
Clone/Ab feature	Rabbit IgG
Cross reactivity	Human
Host	Rabbit
Clonality	Polyclonal Antibody
Purification	Antigen-affinity purified
Immunogen	Recombinant human IL-16
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.



AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

Immunohistochemistry: This antibody stained formalin-fixed, paraffin-embedded sections of human normal placenta. The recommended concentration is 0.5 µg/ml -1.0 µg/ml with a two hour incubation at room temperature. An HRP-labeled polymer detection system was used with a DAB chromogen. Heat induced antigen retrieval with a pH 6.0 sodium citrate buffer is recommended. Optimal concentrations and conditions may vary.

Neutralization: To yield one-half maximal inhibition [ND₅₀] of the biological activity of hIL-15 (1.0 ng/ml), a concentration of 0.15 - 0.20 µg/ml of this antibody is required.

Western Blot: To detect hIL-15 by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 µg/ml. When used in conjunction with compatible secondary reagents the detection limit for recombinant human IL-15 is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

Sandwich ELISA: To detect hIL-15 by sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.5 - 2.0 µg/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 hIL-15.

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