



Anti-Human IL-31

20150223ML



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	102-P237
Size:	100 µg
Lot. No.:	According to product label

Preparation: Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant human IL-31. Anti-Human IL-31 specific antibody was purified by affinity chromatography employing immobilized human IL-31 matrix.

Target Background

Synonyms (Target):	IL31; IL-31
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Interleukin 31 (IL-31) is a secreted, T-cell-derived, 24- kDa, short-chain member of the alpha-helical family of cytokines. The mature region is 141 amino acids (aa) in length and exhibits four alpha-helices. Human and mouse IL-31 are highly divergent at 24% aa sequence identity. The receptor for IL-31 is found on keratinocytes and monocytes. It is a heterodimer composed of the Oncostatin M receptor and a novel gp130-related molecule. IL-31 may be involved in pruritis, or skin itching.

Database References Target

Protein RefSeq:	NP_001014358.1
Uniprot ID:	Q6EBC2
mRNA RefSeq:	NM_001014336.1

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-31
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

Western Blot: To detect IL-31 by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant IL-31 is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

ELISA:

Indirect: To detect IL-31 by indirect 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 at least 0.2 - 0.4 ng/well of recombinant IL-31.

Sandwich: To detect IL-31 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 an appropriate secondary conjugated antibody, allows the detection of at least 0.2 - 0.4 ng/well of recombinant IL-31.

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