

Purified anti-mouse IL-31 Antibody

Catalog# / Size	660602 / 100 µg
Clone	1C2B07
Regulatory Status	RUO
Other Names	Interleukin-31
Isotype	Rat IgG2b, κ
Description	IL-31, mainly produced by activated CD4 ⁺ T cells, is a helical cytokine belonging to the gp130/IL-6 cytokine family. IL-31 is closely related in structure to IL-6, IL-11, and IL-27. Binding of IL-31 to its receptor activates JAK/STAT, PI3K/AKT, and MAPK pathways. IL-31 acts on a broad range of immune and non-immune cells and thus possesses potential pleiotropic physiological functions, such as regulating hematopoiesis and immune response. Transgenic mice overexpressing IL-31 developed severe dermatitis, indicating that IL-31 is involved in skin immunity.

Product Details

Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Full length mouse IL-31 recombinant protein expressed in <i>E. coli</i> .
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	WB - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by Western blotting . For Western blotting, the suggested use of this reagent is 0.1 - 1.0 µg per ml. It is recommended that the reagent be titrated for optimal performance for each application.
RRID	AB_2563557 (BioLegend Cat. No. 660602)

Antigen Details

Structure	163 aa with a putative 23 aa signal peptide that is cleaved to generate a 140 aa mature protein.
Distribution	Secreted
Function	IL-31 belongs to the IL-6 family of cytokines and plays a role in skin inflammation.
Ligand/Receptor	Binds to the IL-31 receptor complex that consists of two receptor subunits, IL31RA and OSMR.
Biology Area	Immunology
Molecular Family	Cytokines/Chemokines
Antigen References	<ol style="list-style-type: none">1. McCandless EE, <i>et al.</i> 2014. <i>Vet. Immunol. Immunopathol.</i> 157:42.2. Arai I, <i>et al.</i> 2013. <i>Exp. Dermatol.</i> 22:669.3. Dai X, <i>et al.</i> 2013. <i>PLoS One.</i> 8:e67666.4. Stott B, <i>et al.</i> 2013. <i>J. Allergy Clin. Immunol.</i> 132:446.5. Hartmann K, <i>et al.</i> 2013. <i>J. Allergy Clin. Immunol.</i> 132:232.

Gene ID

[76399](#)

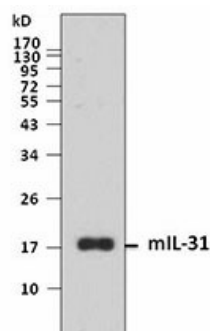
Related Protocols

[Western Blotting Protocol](#)

Other Formats

Purified anti-mouse IL-31

Product Data



20 ng of mouse IL-31 recombinant protein was resolved by electrophoresis, transferred to nitrocellulose, and probed with purified monoclonal anti-mouse IL-31 (clone 1C2B07) antibody. Proteins were visualized using a goat anti-rat-IgG secondary conjugated to HRP and chemiluminescence detection.

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