

## Purified anti-human IL-31 Antibody

|                          |   |
|--------------------------|---|
| <b>Catalog# / Size</b>   | 659602 / 100 µg   |
| <b>Clone</b>             | 1D10B31   |
| <b>Regulatory Status</b> | RUO   |
| <b>Other Names</b>       | Interleukin-31  |
| <b>Isotype</b>           | Mouse IgG2b, κ  |
| <b>Description</b>       | IL-31, produced mainly by activated CD4 <sup>+</sup> T cells, is a newly discovered helical cytokine belonging to the gp130/IL6 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. Human IL-31 is also involved in inflammatory bowel disease, airway hypersensitivity, and dermatitis. |

### Product Details

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|-------------------------------|--|
| <b>Verified Reactivity</b>    | Human  |
| <b>Antibody Type</b>          | Monoclonal   |
| <b>Host Species</b>           | Mouse  |
| <b>Immunogen</b>              | Full length human IL-31 recombinant protein expressed in <i>E. coli</i> .  |
| <b>Formulation</b>            | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.  |
| <b>Preparation</b>            | The antibody was purified by affinity chromatography.  |
| <b>Concentration</b>          | 0.5 mg/ml  |
| <b>Storage &amp; Handling</b> | The antibody solution should be stored undiluted between 2°C and 8°C.  |
| <b>Application</b>            | <a href="#">WB - Quality tested</a>  |
| <b>Recommended Usage</b>      | Each lot of this antibody is quality control tested by <a href="#">Western blotting</a> . 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. |
| <b>RRID</b>                   | AB_2563254 (BioLegend Cat. No. 659602)   |

### Antigen Details

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|---------------------------|--|
| <b>Structure</b>          | 161 aa with with a putative 23 aa signal peptide that is cleaved to generate a 138 aa mature protein.  |
| <b>Distribution</b>       | Secreted by activated CD4 T cells.   |
| <b>Function</b>           | IL-31 belongs to the IL-6 family of cytokines and plays a role in skin inflammation.   |
| <b>Ligand/Receptor</b>    | Binds to IL-31 receptor complex that consists of two receptor subunits, IL31RA and OSMR.   |
| <b>Cell Type</b>          | T cells, Eosinophils   |
| <b>Biology Area</b>       | Cell Biology, Immunology   |
| <b>Molecular Family</b>   | Cytokines/Chemokines   |
| <b>Antigen References</b> | 1. McCandless EE, <i>et al.</i> 2014. <i>Vet. Immunol. Immunopathol.</i> 157:42.<br>2. Arai I, <i>et al.</i> 2013. <i>Exp. Dermatol.</i> 22:669. |

3. Dai X, et al. 2013. *PLoS One*. 8:e67666.
4. Stott B, et al. 2013. *J. Allergy Clin. Immunol.* 132:446.
5. Hartmann K, et al. 2013. *J. Allergy Clin. Immunol.* 132:232.
6. Baron JM and Lüscher B. 2012. *Acta. Derm. Venereol.* 92:5.

Gene ID [386653](#)

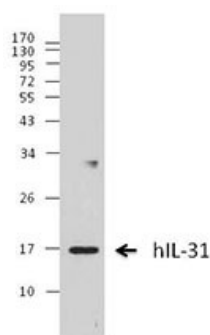
## Related Protocols

[Western Blotting Protocol](#)

## Other Formats

Purified anti-human IL-31, PE anti-human IL-31, APC anti-human IL-31, Alexa Fluor® 488 anti-human IL-31

## Product Data



20 ng of human IL-31 recombinant protein was resolved by electrophoresis, transferred to nitrocellulose, and probed with purified monoclonal anti-human IL-31 (clone 1D10B31) antibody. Proteins were visualized using an anti-mouse-IgG secondary conjugated to HRP and chemiluminescence detection.

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