

Biotin anti-mouse IL-34 Antibody

Catalog# / Size	519303 / 50 µg
Clone	Poly5193
Regulatory Status	RUO
Other Names	IL34, Interleukin 34, C16orf77
Isotype	Goat Polyclonal Ig
Description	<p>IL-34 is a homodimeric glycoprotein which contains 241 amino acids. IL-34 is expressed in the heart, brain, lung, liver, kidney, thymus, spleen, and other organs. It specifically binds to CD115/M-CSF receptor (CSF-1 receptor or c-Fms) and activates ERK1/2 phosphorylation. The function of IL-34 overlaps with CSF-1 to regulate myeloid lineage differentiation, proliferation, and survival.</p> <p>Elevated levels of IL-34 are seen in the plasma of rheumatoid arthritis patients, but can be decreased in response to therapy. IL-34 levels are also increased in the serum of cancer patients and associated with poor prognosis.</p> <p>Mouse IL-34 shares 71% sequence identity with human IL-34 on the amino acid level.</p>

Product Details

Verified Reactivity	Mouse
Antibody Type	Polyclonal
Host Species	Goat
Immunogen	Recombinant mouse IL-34
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with biotin under optimal conditions.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze.
Application	ELISA Detection - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by ELISA assay . A concentration of 0.5 µg/ml detection antibody was utilized to generate the example standard curve. It is recommended that the end-user titrate each lot of reagents for optimal performance.
Application Notes	<p>ELISA Detection: To measure mouse IL-34, this antibody can be used as a detection antibody in sandwich ELISA format, and paired with the LEAF™ purified C054-35 antibody (Cat. No. 147201) as the capture antibody. Recombinant Mouse IL-34 (ELISA Std.) (Cat. No. 577609) can be used as the protein standard.</p> <p>Note: For testing mouse IL-34 in serum, plasma or cell culture supernatant, BioLegend's LEGEND MAX™ ELISA Kits (Cat. No. 439107 & 439108) are specially developed and recommended.</p>
RRID	AB_2561419 (BioLegend Cat. No. 519303)

Antigen Details

Structure	Homodimer
Distribution	Expressed in different tissues, including spleen, heart, brain, lung, liver, kidney, thymus, testes, ovary, small intestine, prostate, and colon

Function	Regulates myeloid lineage differentiation, proliferation, and survival
Interaction	Macrophages, monocytes, and myeloid cells
Ligand/Receptor	CD115/M-CSF receptor (CSF-1 receptor or c-Fms)
Cell Type	Dendritic cells
Biology Area	Immunology, Innate Immunity
Molecular Family	Cytokines/Chemokines
Antigen References	<ol style="list-style-type: none"> 1. Lin H, <i>et al.</i> 2008. <i>Sciences</i> 320:807. 2. Chihara T, <i>et al.</i> 2010. <i>Cell Death Differ.</i> 17:1917. 3. Wei S, <i>et al.</i> 2010. <i>J. Leuko. Biol.</i> 88:495. 4. Eda H, <i>et al.</i> 2011. <i>Rheumatol</i> 31:1525. 5. Covaleda L, <i>et al.</i> 2010. <i>Virology</i> 397:217.
Gene ID	76527

Related Protocols

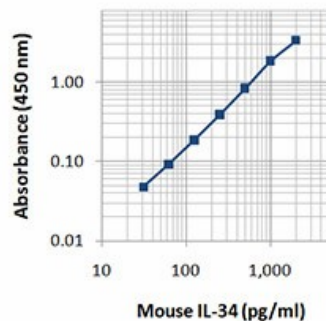
[Active Protocols: Sandwich ELISA - Video](#)

[Sandwich ELISA Protocol](#)

Other Formats

Biotin anti-mouse IL-34

Product Data



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