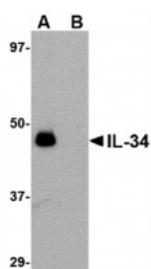


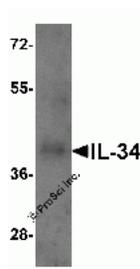


## IL-34 Antibody

CATALOG NUMBER: 4779



Western blot analysis of IL-34 in human brain tissue lysate with IL-34 antibody at 0.25 ug/mL in (A) the absence and (B) the presence of blocking peptide.



Western blot analysis of 1 ng of recombinant human IL-34 with IL-34 antibody at 1 ug/ml.

### Specifications

<b>SPECIES REACTIVITY:</b>	Human, Mouse, Rat
<b>HOMOLOGY:</b>	Predicted species reactivity based on immunogen sequence: Bovine: (94%)
<b>TESTED APPLICATIONS:</b>	ELISA, WB
<b>APPLICATIONS:</b>	IL-34 antibody can be used for the detection of IL-34 by Western blot at 0.25 ug/mL. Despite its predicted molecular weight, IL-34 will often run at higher molecular weight in SDS-PAGE.
<b>USER NOTE:</b>	Optimal dilutions for each application to be determined by the researcher.
<b>POSITIVE CONTROL:</b>	1) Cat. No. 1303 - Human Brain Tissue Lysate
<b>PREDICTED MOLECULAR WEIGHT:</b>	Predicted: 26 kDa Observed: 42-48 kDa
<b>IMMUNOGEN:</b>	IL-34 antibody was raised against a 16 amino acid synthetic peptide from near the amino terminus of human IL-34.  The immunogen is located within amino acids 30 - 80 of IL-34.
<b>HOST SPECIES:</b>	Rabbit

### Properties

<b>PURIFICATION:</b>	IL-34 Antibody is affinity chromatography purified via peptide column.
<b>PHYSICAL STATE:</b>	Liquid
<b>BUFFER:</b>	IL-34 Antibody is supplied in PBS containing 0.02% sodium azide.
<b>CONCENTRATION:</b>	1 mg/mL
<b>STORAGE CONDITIONS:</b>	IL-34 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

<b>CLONALITY:</b>	Polyclonal
<b>ISOTYPE:</b>	IgG
<b>CONJUGATE:</b>	Unconjugated

#### Additional Info

<b>ALTERNATE NAMES:</b>	IL-34 Antibody: IL-34, C16orf77, Interleukin-34, IL-34
<b>ACCESSION NO.:</b>	ACD13474
<b>PROTEIN GI NO.:</b>	187610438
<b>OFFICIAL SYMBOL:</b>	IL34
<b>GENE ID:</b>	146433

#### Background

**BACKGROUND:** IL-34 Antibody: Interleukin-34 (IL-34) was identified through a functional screening of a library of secreted proteins after transfection of an embryonic kidney cell line with recombinant cDNAs. Flow cytometry and monocyte viability assays demonstrated increased survival and/or proliferation of monocytes induced by IL-34 and specific binding of IL-34 to CD14+ monocytes. IL-34 is a second ligand to the colony stimulating factor (CSF)-1 receptor in addition to CSF1. Like CSF1, IL-34 stimulates phosphorylation of ERK1 and ERK2 in human monocytes and induces differentiation of bone marrow cells into macrophages.

**REFERENCES:** 1) Lin H, Lee E, Hestir K, et al. Discovery of a cytokine and its receptor by functional screening of the extracellular proteome. *Science* 2008; 320:807-11.

**FOR RESEARCH USE ONLY**

January 11, 2018