

IL-34 Antibody

Catalog # ASC10756

Product Information

Application WB, E Primary Accession Q6ZMJ4

Other Accession ACD13474, 187610438
Reactivity Human, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Isotype IgG
Calculated MW 27482
Concentration (mg/ml) 1 mg/mL
Conjugate Unconjugated

Application Notes IL-34 antibody can be used for the detection of IL-34 by Western blot at 0.25

□g/mL. Despite its predicted molecular weight, IL-34 will often run at higher

molecular weight in SDS-PAGE.

Additional Information

Gene ID 146433

Other Names Interleukin-34, IL-34, IL34, C16orf77

Target/Specificity IL34;

Reconstitution & Storage 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.

Precautions IL-34 Antibody is for research use only and not for use in diagnostic or

therapeutic procedures.

Protein Information

Name IL34

Synonyms C16orf77

Function Cytokine that promotes the proliferation, survival and differentiation of

monocytes and macrophages. Promotes the release of pro-inflammatory chemokines, and thereby plays an important role in innate immunity and in inflammatory processes. Plays an important role in the regulation of osteoclast proliferation and differentiation, and in the regulation of bone resorption. Signaling via CSF1R and its downstream effectors stimulates

phosphorylation of MAPK1/ERK2 AND MAPK3/ERK1.

Cellular Location

Secreted.

Tissue Location

Detected in the sinusoidal epithelium in the red pulp of spleen (at protein level). Predominantly expressed in spleen Also detected in a range of other tissues including heart, brain, lung, liver, kidney, thymus, testis, ovary, small intestine, prostate and colon.

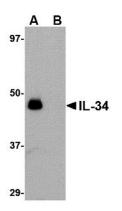
Background

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

Lin H, Lee E, Hestir K, et al. Discovery of a cytokine and its receptor by functional screening of the extracellular proteome. Science2008; 320:807-11.

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.