

# **IL-34 Antibody**

Catalog # ASC10756

# **Specification**

# **IL-34 Antibody - Product Information**

Application
Primary Accession
Other Accession
Reactivity
Host
Clonality
Isotype
Application Notes

WB
O6ZMJ4
ACD13474, 187610438
Human, Mouse, Rat
Rabbit
Polyclonal
IgG
IL-34 antibody can be used for the detection of IL-34 by Western blot at 0.25
µg/mL. Despite its predicted molecular weight, IL-34 will often run at higher molecular weight in SDS-PAGE.

## **IL-34 Antibody - Additional Information**

Gene ID **146433** 

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.

## **IL-34 Antibody - 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**

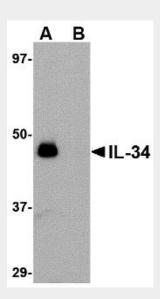
Detected in the sinusoidal epithelium in the red pulp of spleen (at protein level). Predominantly expressed in spleen Also detected in a range of other tissues including heart, brain, lung, liver, kidney, thymus, testis, ovary, small intestine, prostate and colon.

## **IL-34 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# IL-34 Antibody - 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.

# IL-34 Antibody - 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.

## **IL-34 Antibody - 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.

