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IL34 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1424a

Product Information

Application	WB, FC, ICC, E
Primary Accession	Q6ZMJ4
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1D12
Isotype	IgG1
Calculated MW	27482
Description	Cytokine that promotes the differentiation and viability of monocytes and macrophages. Stimulates phosphorylation of MAPK1/ERK2 AND MAPK3/ERK1. Ligand for colony-stimulating factor-1 receptor CSF1R.Tissue specificity: 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.
Immunogen	Purified recombinant fragment of human IL34 expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	146433
Other Names	Interleukin-34, IL-34, IL34, C16orf77
Dilution	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 ICC~~N/A E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	IL34 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.

References

1. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. 2. Lim J, et al. Cell, 2006 May 19. 3. Lin H, et al. Science, 2008 May 9.

Images

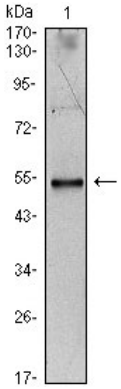


Figure 1: Western blot analysis using IL34 mAb against IL34-hIgGFc transfected HEK293 cell lysate.

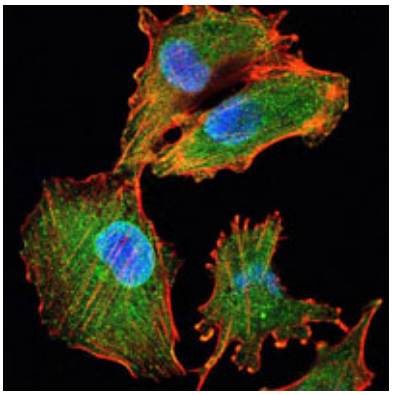
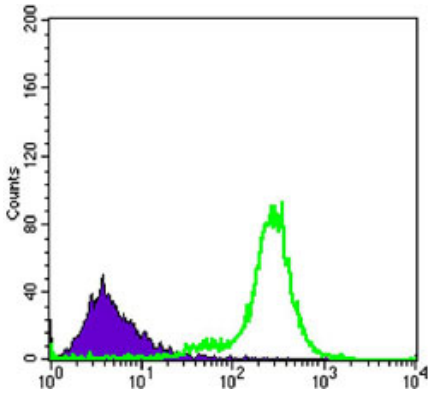


Figure 2: Immunofluorescence analysis of U251 cells using IL34 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

Figure 3: Flow cytometric analysis of K562 cells using IL34 mouse mAb (green) and negative control (purple).



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