

## Product datasheet for **AM06478SU-N**

### Interleukin 34 (IL34) Mouse Monoclonal Antibody [Clone ID: 1D12]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	1D12
Applications:	FC, IF, WB
Recommended Dilution:	<b>ELISA:</b> 1/10000. <b>Western Blot:</b> 1/500 - 1/2000. <b>Immunofluorescence:</b> 1/200 - 1/1000. <b>Flow Cytometry:</b> 1/200 - 1/400.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of Human IL34 expressed in E. Coli.
Specificity:	Recognizes Interleukin-34 / IL34
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% Sodium Azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	27.5 kDa
Gene Name:	interleukin 34
Database Link:	<a href="#">Entrez Gene 146433 Human Q6ZMJ4</a>



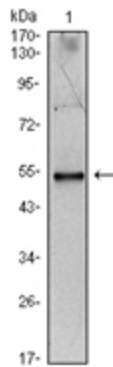
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**Background:**

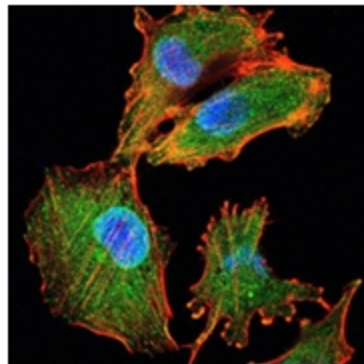
Interleukin-34 (IL-34) was identified through a functional screening of a library of secreted proteins after transfection of an embryonic kidney cell line with recombinant cDNAs. Flow cytometry and monocyte viability assays demonstrated increased survival and/or proliferation of monocytes induced by 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. Despite its predicted molecular weight, IL-34 will often run at higher molecular weight in SDS-PAGE.

**Synonyms:**

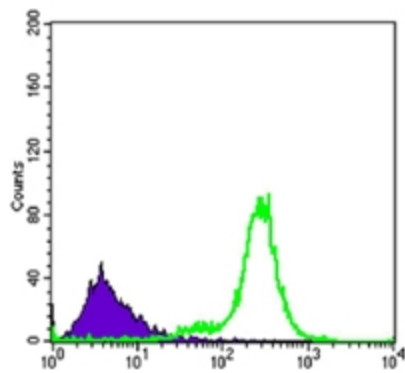
IL-34, C16orf77

**Product images:**


Western blot analysis using IL34 antibody Cat.-No AM06478SU-N against IL34-hIgGFc transfected HEK293 cell lysate.



Immunofluorescence analysis of U251 cells using IL34 antibody Cat.-No AM06478SU-N (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Flow cytometric analysis of K562 cells using IL34 antibody Cat.-No AM06478SU-N (green) and negative control (purple).