IL-34 Positive Control

PRODUCT OVERVIEW

Product Name	IL-34, Positive Control
Full Product Name	IL-34 Positive Control
Product Gene Name	IL-34 positive control
Concentration	The concentration of the sample is empirically set so that 20 ul per lane in Western and blotted with corresponding affinity purified antibody will give a clean band with a high signal to noise ratio on the gel. (lot specific)
Preparation and Storage	Store at -20 degree C for long term storage
Matching Pairs	Antibody: IL-34 (MBS5401136) Positive Control: IL-34 (MBS5401269)
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Molecular Weight	27,482 Da
Chromosome Location	Chromosome: 16; NC_000016.9 (70613798..70694585). Location: 16q22.1
OMIM	612081
3D Structure	ModBase 3D Structure for Q6ZMJ4
Immunogen	Interleukin-34
Product Categories/Family for IL-34 positive control	Biomolecule
Applications Tested/Suitable for IL-34 positive control	Western Blot (WB)
Related Product Information for IL-34 positive control	MBS5401269 is a positive control targeting IL-34. Western Blot Positive Control Interleukin-34
Other Notes	Small volumes of IL-34 positive control vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL-34. It may not necessarily be applicable to this product.

NCBI GI #	289666752
NCBI GeneID	146433
NCBI Accession #	NP_001166243.1
UniProt Primary Accession #	Q6ZMJ4
UniProt Secondary Accession #	Q8N6L2; B2RC28; B2Z4A8; B2ZC70
UniProt Related Accession #	Q6ZMJ4
GenBank Nucleotide #	NM_001172772.1
NCBI Official Full Name	interleukin-34 isoform 1

NCBI Official Synonym Full Names	interleukin 34
NCBI Official Symbol	IL34
NCBI Official Synonym Symbols	IL-34; C16orf77
UniProt Protein Name	Interleukin-34
UniProt Gene Name	IL34
UniProt Synonym Gene Names	C16orf77; IL-34
UniProt Entry Name	IL34_HUMAN
NCBI Protein Information	interleukin-34
NCBI Summary for IL-34	Interleukin-34 is a cytokine that promotes the differentiation and viability of monocytes and macrophages through the colony-stimulating factor-1 receptor (CSF1R; MIM 164770) (Lin et al., 2008 [PubMed 18467591]).[supplied by OMIM, May 2008]
UniProt Comments for IL-34	IL34: Cytokine that promotes the proliferation, survival and differentiation of monocytes and macrophages. Promotes the release of proinflammatory 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. Belongs to the IL-34 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted, signal peptide; Secreted; Cell cycle regulation; Cytokine Chromosomal Location of Human Ortholog: 16q22.1 Cellular Component: extracellular space Molecular Function: growth factor activity; cytokine activity; macrophage colony stimulating factor receptor binding Biological Process: positive regulation of cell proliferation; innate immune response; positive regulation of protein amino acid phosphorylation; inflammatory response
Research Articles on IL-34	**1.** the feline CSF-1R was cloned and the responsiveness to CSF-1 and IL-34 from a range of species, was examined.
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