



Anti-IL34 monoclonal antibody, clone 689520 (DCABY-4152)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Interleukin 34 (IL-34; also known as uncharacterized protein C16orf77) is secreted as a homodimer consisting of 39 kDa monomers. It belongs to no known cytokine family. Human IL-34 is synthesized as a 242 amino acid (aa) precursor that contains a 20 aa signal sequence and a 222 aa mature chain. The mature chain contains one potential site of N-linked glycosylation. Human IL-34 is 71% identical to mouse IL-34 on the amino acid level. IL-34 is expressed in various tissues, including the heart, brain, liver, kidney, spleen, thymus, testes, ovary, small intestine, prostate, and colon, and is most abundant in the spleen. The receptor for IL-34 is colony-stimulating factor 1 receptor (CSF-1R). IL-34 stimulates monocyte proliferation. In functional studies, IL-34, like CSF-1, the other ligand for CSF-1R, stimulated phosphorylation of extracellular signal-regulated kinase-1 and -2 (ERK1/2) in human monocytes. In addition, IL-34 promoted the formation of the colony-forming unit-macrophage (CFU-M), a macrophage progenitor, in human bone marrow cultures.
Specificity	Detects human IL-34 in sandwich immunoassays. In this format, no cross-reactivity with recombinant mouse IL-34 is observed.
Immunogen	Mouse myeloma cell line NS0-derived recombinant human IL-34. Asn21-Pro242 Accession Number Q6ZMJ4
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	689520
Purification	Protein A or G purified from hybridoma culture supernatant
Conjugate	Unconjugated

Applications	ELISA Capture (Matched Pair)
Format	Liquid
Size	500 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
Preservative	None
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month from date of receipt, 2 to 8 °C, reconstituted. 6 months from date of receipt, -20 to -70 °C, reconstituted.

GENE INFORMATION

Gene Name	IL34 interleukin 34 [Homo sapiens (human)]
Official Symbol	IL34
Synonyms	IL34; interleukin 34; IL-34; C16orf77; interleukin-34;
Entrez Gene ID	146433
Protein Refseq	NP_001166242
UniProt ID	Q6ZMJ4
Chromosome Location	16q22.1
Function	cytokine activity; growth factor activity; macrophage colony-stimulating factor receptor binding;