



Anti-IL34 monoclonal antibody, clone 689502 [Biotin] (DCABY-4280)

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 ELISAs. In sandwich immunoassays, no cross-reactivity or interference with recombinant mouse IL-34 is observed. |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant human IL-34. Asn21-Pro242 Accession Number NP_689669 |
| Isotype | IgG1 |
| Source/Host | Mouse |
| Species Reactivity | Human |
| Clone | 689502 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Conjugate | Biotin |

| | |
|---------------------|--|
| Applications | ELISA Detection (Matched Pair) |
| Format | Liquid |
| Size | 250 µg |
| Buffer | Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. |
| 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, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

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; |