

IL-6 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1021a**Specification**

IL-6 Antibody - Product Information

| | |
|-------------------|------------------------|
| Application | WB, E |
| Primary Accession | P05231 |
| Reactivity | Human |
| Host | Mouse |
| Clonality | Monoclonal |
| Isotype | IgG1 |

Description

Interleukine 6 (IL-6) is a cytokine produced primarily by stimulated monocytes, fibroblasts and epithelial cells. It has a wide variety of biological functions through activating a cell surface signaling assembly composed of IL6, IL6RA, and the shared signaling receptor gp130. The cytokine plays an essential role in the final differentiation of b-cells into Igsecreting cells, and induces myeloma, plasmacytoma growth, nerve cells differentiations. In addition, IL-6 is an important regulator of acute phase reaction.

Immunogen

Purified recombinant fragment of human IL-6 expressed in E. Coli.

Formulation

Ascitic fluid containing 0.03% sodium azide.

IL-6 Antibody - Additional Information

Gene ID 3569

Other Names

Interleukin-6, IL-6, B-cell stimulatory factor 2, BSF-2, CTL differentiation factor, CDF, Hybridoma growth factor, Interferon beta-2, IFN-beta-2, IL6, IFNB2

Dilution

WB~~1/500 - 1/2000

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

IL-6 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

IL-6 Antibody - Protein Information

Name IL6 ([HGNC:6018](#))

Synonyms IFNB2

Function

Cytokine with a wide variety of biological functions in immunity, tissue regeneration, and metabolism. Binds to IL6R, then the complex associates to the signaling subunit IL6ST/gp130 to trigger the intracellular IL6-signaling pathway (Probable). The interaction with the membrane-bound IL6R and IL6ST stimulates 'classic signaling', whereas the binding of IL6 and soluble IL6R to IL6ST stimulates 'trans- signaling'. Alternatively, 'cluster signaling' occurs when membrane- bound IL6:IL6R complexes on transmitter cells activate IL6ST receptors on neighboring receiver cells (Probable).

Cellular Location

Secreted.

Tissue Location

Produced by skeletal muscle.

IL-6 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

IL-6 Antibody - Images

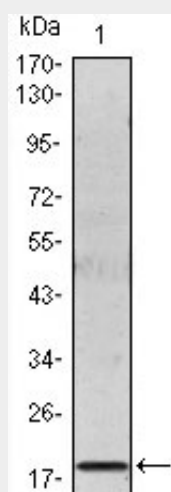


Figure 1: Western blot analysis using IL6 mouse mAb against IL6 recombinant protein.

IL-6 Antibody - References

1. Ota, N. et al. 2001. J. Hum. Genet. 46: 267-272.

IL-6 Antibody - Citations

- [Monocyte chemoattractant protein 1 released from macrophages induced by hepatitis C virus promotes monocytes migration.](#)