

Anti-Human IL-6 (RABBIT) Antibody - 109-401-310
Code: 109-401-310

Size: 1 mL

Product Description: Anti-Human IL-6 (RABBIT) Antibody - 109-401-310

Concentration: 75 mg/mL by Refractometry

PhysicalState: Liquid (sterile filtered)

Label	Unconjugated
Host	Rabbit
Gene Name	IL6
Species Reactivity	human
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer	None
Preservative	None
Storage Condition	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Synonyms	HSF, Hybridoma growth factor, HGF, Hybridoma plasmacytoma growth factor, IL 6, IL6 protein, IFNB2, Interferon beta 2, BSF2, CDF, B-Cell Differentiation Factor, B-cell stimulatory factor 2, CTL differentiation factor, rabbit anti-Interleukin 6 Antibody, rabbit anti-IL-6
Application Note	IL-6 antibody has been tested for use in neutralizations, ELISA, immunohistochemistry, radioimmunoassay, immunoprecipitation, and immunoblot. Reactivity in other immunoassays is unknown. Expect ~23.7kDa. In Western blot analysis of natural cell products or human body fluids, multiple bands of IL-6 will appear due to the variable amount of glycosylation on the molecule. For immunoblot use the supernatants or lysates of 2 x 10 ⁶ endotoxin-stimulated human peripheral blood mononuclear cells (PBMC). PBMC are stimulated for 24 hours with 1% (v/v) human serum plus 10ng/mL E. coli LPS. For immunoprecipitation, pre-clearing with a non-specific rabbit IgG is helpful to reduce background. The antiserum is useful for neutralization of human IL-6 activity in bioassays. For neutralization, incubate the sample with a 1:400 dilution of the antiserum for at least 4 hours before being tested. A control of similarly diluted normal rabbit IgG (heat inactivated) is recommended. In neutralization experiments in vitro, this antibody does not result in enhanced activity of IL-6. However, because antibodies to IL-6 may act as a soluble receptor in vivo, some antibodies to IL-6 act as carriers and enhance IL-6 activity. For immunohistochemistry either paraffin fix or cryofix tissue.
Background	Anti-IL-6 Antibody recognizes human IL-6 that is a secreted cytokine with a wide variety of biological functions. IL-6 is a potent inducer of the acute phase response and plays an essential role in the final differentiation of B-cells into Ig-secreting cells involved in lymphocyte and monocyte differentiation. IL-6 induces myeloma and plasmacytoma growth and induces nerve cells differentiation and acts on B-cells, T-cells, hepatocytes, hematopoietic progenitor cells and cells of the CNS. IL-6 also acts as a myokine. It is discharged into the bloodstream after muscle contraction and acts to increase the breakdown of fats and to improve insulin resistance. Anti-IL6 antibody is ideal for investigators involved in Immunology and Cancer research.
Purity And Specificity	Anti-IL-6 antiserum detects recombinant and native IL-6 present in body fluids and cell supernatants in various assays (ie. IL-1 stimulated IL-6 production from fibroblasts). This product has minimal reactivity with mouse IL-6.
Assay Dilutions	User Optimized
ELISA	1:1,000 - 1:5,000
Western Blot	1:500 - 1:2,000
Immunohistochemistry	1:400 - 1:800
Neutralization	1:400
Other Assays	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	This whole rabbit serum was prepared by repeated immunizations with recombinant human IL-6 produced in E.coli.

General Reference

Novick, D., et al. (1989) Monoclonal antibodies for affinity Purification of IL-6/IFN β 2 and for neutralization of HGF activity. *Hybridoma* 8: 561-567.

Novick, D., et al. (1992) Enhancement of interleukin 6 cytostatic effect on human breast carcinoma cells by soluble IL-6 receptor from urine and reversion by monoclonal antibody. *Cytokine* 4 (1): 6-11.

Silvera, M.R., et al. (1994) Expression of TGF isoforms by thy-1+ and Thy-1- pulmonary fibroblast subsets: evidence for TGF as a regulator of IL-dependent stimulation of IL-6. *Lymphokine Cytokine Res* 13: 277-285.

Related Products

010-001-310	IL-6 Mouse Recombinant Protein - 010-001-310
109-401-311	Anti-Human IL-8 (RABBIT) Antibody - 109-401-311
611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302
B304	NORMAL GOAT SERUM (NGS) - B304

Related Links

UniProtKB - P05231

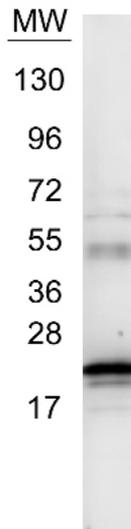
<http://www.uniprot.org/uniprot/P05231>

NCBI - http://www.ncbi.nlm.nih.gov/protein/NP_000591.1

GeneID - 3569

Images

- 1 Western blot using Rockland's anti-IL6 antibody. Protein was resolved on a 4-20% Tris-Glycine gel by SDS-PAGE and transferred onto nitrocellulose. The blot shows detection of a band ~21 kDa in size corresponding to anti-IL6 antibody. Molecular weight markers are also shown (MW). After transfer, the membrane was blocked for 30 minutes with 1% BSA-TBST. Detection occurred using peroxidase conjugated anti-Rabbit IgG (p/n 611-103-122) secondary antibody diluted 1:40,000 in blocking buffer (p/n MB-070) for 30 min at RT followed by reaction with FemtoMax™ chemiluminescent substrate. Image was captured using VersaDoc™ MP 4000 imaging system (Bio-Rad).



Disclaimer

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