Datasheet for ABIN964743

anti-IL-6 antibody

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Overview

Quantity:	100 µg
Target:	IL-6 (IL6)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Multiplex Assay (MA)

Product Details

Purpose:	IL-6 Antibody
Immunogen:	Immunogen: This Protein A purified IL-6 monoclonal antibody was produced in mouse by repeated immunizations with mature full length recombinant human IL-6 produced in E.coli followed by hybridoma development. Immunogen Type: Recombinant Protein
Clone:	33A12-G9
Isotype:	IgG1 kappa
Cross-Reactivity (Details):	This purified antibody 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).
Characteristics:	Synonyms: mouse Anti-IL-6 antibody, mouse anti-interleukin-6 antibody, HSF, Hybridoma growth factor, Hybridoma plasmacytoma growth factor, IFNB2, IL 6, IL6 protein, Interferon beta 2, Interleukin 6, BSF2, CDF
Purification:	Protein A purified

Product Details

Sterility:	Sterile filtered
Endotoxin Level:	Low Endotoxin

Target Details

Target:	IL-6 (IL6)
Alternative Name:	IL6 (IL6 Products)
Background:	Background: IL-6 is a secreted cytokine with a wide variety of biological functions. It 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, hematopoeitic 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-IL-6 antibody is ideal for investigators involved in Cancer, Neuroscience and Immunology research.
Gene ID:	3569
NCBI Accession:	NP_000591
UniProt:	P05231
Pathways:	TLR Signaling, Hormone Transport, Negative Regulation of Hormone Secretion, Myometrial Relaxation and Contraction, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response, Regulation of Carbohydrate Metabolic Process, Autophagy, Cell RedoxHomeostasis, Cancer Immune Checkpoints, Inflammasome

Application Details

Application Notes:	Flow Cytometry Dilution: 0.5 mg/mL Application Note: Anti-IL-6 antibody has been tested for use in ELISA, Flow Cytometry, and western blotting. Reactivity is also expected in neutralizations, radioimmunoassay and immunohistochemistry. The endotoxin content is estimated to be <10 pg/µl by the LAL method. By western blot a band approximately 23.7 kDa in size corresponding to native human IL-6 protein is expected in the appropriate cell lysate or extract. Specific conditions for reactivity should be optimized by the end user. Western Blot Dilution: 1:1000 ELISA Dilution: 1:10,000

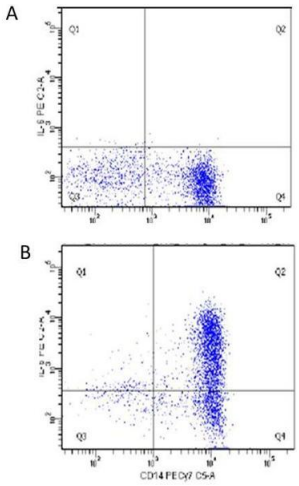
Application Details

	Other: User Optimized
Restrictions:	For Research Use only

Handling

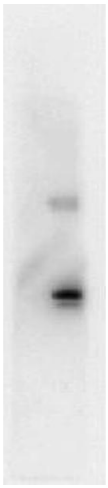
Format:	Liquid
Concentration:	2.19 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store IL 6 antibody at -20° C . For extended storage aliquot contents and freeze at -20° C or below. 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.
Expiry Date:	12 months

Images



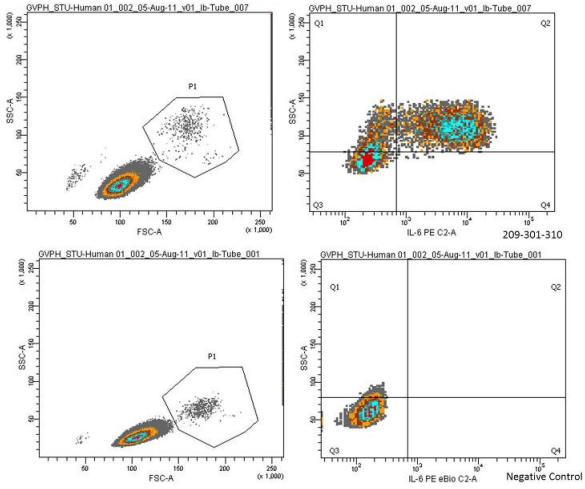
Flow Cytometry

Image 1.



Western Blotting

Image 2. Western Blot showing detection of Human IL-6. 100 ng of Human IL-6 was run on a 4-20% gel and transferred to 0.45 µm nitrocellulose. After blocking with 1% BSA-TTBS , diluted to 1X) 30 min at 20°C, Anti-Human IL-6 (MOUSE) Antibody was used at 1:1000 in 1% BSA-TTBS over night at 4°C. Peroxidase conjugated Rabbit Anti-mouse secondary antibody was used in Blocking Buffer for Fluorescent Western Blotting at 1:40,000 for 30 min at 20°C and imaged using the Bio-Rad 4000 MP. Band indicates correct 17 kDa molecular weight position expected for Human IL-6.



Flow Cytometry

Image 3. Anti-Human IL-6 Antibody - Flow Cytometry Human PBMCs were stimulated with 1ug/mL LPS and a transport inhibitor for 4-5 hours. Cells were then suspended in fixation buffer for 10-12 minutes and vortexed briefly. 1mL of permeabilization buffer was added. 0.5mg of Anti-Human IL-6 Antibody was added (0.125 ug/mL control antibody) and incubated in the dark for 30 minutes. 1:100 of strep/PE was added and incubated for 30 minutes. LPS-stimulated samples were compared to unstimulated cells stained with strep/PE.