

For Research Use Only

NeutraControl IL-6 Monoclonal antibody



Catalog Number: 69501-1-Ig **1 Publications**

Basic Information

Catalog Number: 69501-1-Ig
Size:
Source: Mouse
Isotype: IgG1
Immunogen Catalog Number: HZ-1019

GenBank Accession Number:
GeneID (NCBI): 3569
ENSEMBL Gene ID: ENSG00000136244
Full Name: interleukin 6 (interferon, beta 2)

Purification Method: Protein G purification
CloneNo.: 1E9B8

Applications

Tested Applications:
Non-Neutralization, ELISA

Cited Applications:
ELISA

Species Specificity:
Human

Cited Species:
human

Background Information

Interleukin-6 (IL-6) is an interleukin that acts as both a pro-inflammatory and anti-inflammatory cytokine. IL-6 protein is secreted by a variety of cell types including T cells and macrophages as phosphorylated and variably glycosylated molecule. IL-6 plays an essential role in the final differentiation of B-cells into Ig-secreting cells involved in lymphocyte and monocyte differentiation. It induces myeloma and plasmacytoma growth and induces nerve cells differentiation Acts on B-cells, T-cells, hepatocytes, hematopoietic progenitor cells and cells of the CNS. IL-6 is also considered a myokine, a cytokine produced from muscle, and is elevated in response to muscle contraction. IL-6 has been shown to interact with interleukin-6 receptor and glycoprotein 130. Additionally, IL-6 is involved in hematopoiesis, bone metabolism, and cancer progression, and has been defined an essential role in directing transition from innate to acquired immunity.

This antibody is a neutralizing control antibody for IL-6, the immunogen is the same as Neutrakine 69001-1-Ig but could not neutralize human IL-6.

Notable Publications

Author	Pubmed ID	Journal	Application
Yao Zhang	36356714	Free Radic Biol Med	ELISA

Storage

Storage:
Lyophilized antibodies are stable for 1 year from the date of receipt if stored between (-20°C) and (-80°C). Upon reconstitution we recommend that the solution can be stored at(4°C) for short term or at(-20°C) to (-80°C) for long term. Repeated freeze thaw cycles should be avoided with reconstituted products.

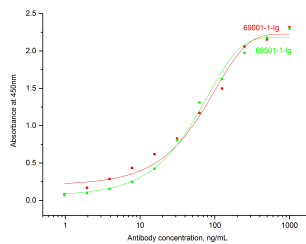
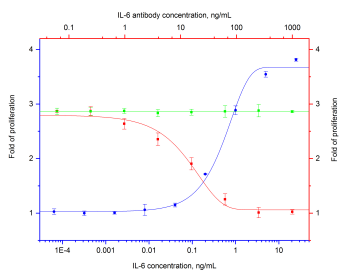
Storage Buffer:
Sterile PBS.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Recombinant human IL-6 (Cat.NO. HZ-1019) stimulates proliferation of hybridoma (Proteintech mouse anti-GST clone 3G12B10) in a dose-dependent manner (blue curve, refer to bottom X-left Y axis). The activity of human IL-6 (1 ng/mL HZ-1019) is neutralized by mouse anti-human IL-6 monoclonal antibody 69001-1-Ig at serial dose (red curve, refer to top X-right Y axis). The ND50 is typically 10-30 ng/mL. The NeutraControl mouse anti-human IL-6 monoclonal antibody 69501-1-Ig could



Indirect ELISA was carried out by coating recombinant Human IL-6 (Cat.NO. HZ-1019) at 70 ng/well followed by blocking and adding serial diluted IL-6 antibody 69001-1-Ig and 69501-1-Ig respectively. Signal was developed with TMB and stopped by H2SO4. Signal strength was measured by absorbance at 450 nm.