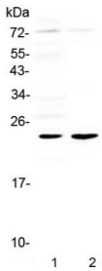
Il6 Antibody (R32997)

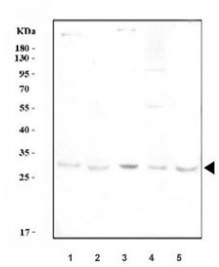
Catalog No.	Formulation	Size
R32997	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P20607
Applications	Western Blot: 0.5-1ug/ml
Limitations	This Il6 antibody is available for research use only.



IL6 Antibody Mouse and Rat Heart WB. Western blot analysis of 1) rat heart and 2) mouse heart tissue lysates using IL6 Antibody / Interleukin-6 Antibody demonstrates a distinct band at approximately 24 kDa in both samples, consistent with the expected molecular weight of Interleukin 6. IL6 is a pleiotropic cytokine involved in inflammatory signaling, immune regulation, tissue injury responses, and communication between immune and non-immune cell populations. The observed cross-species reactivity supports the utility of this antibody for studies of cytokine biology, cardiovascular inflammation, and inflammation-associated signaling pathways. Predicted molecular weight: ~24 kDa, though higher molecular weight forms may be observed due to glycosylation.



IL6 Antibody Spleen and Macrophage Cell Line WB. Western blot analysis of 1) rat spleen, 2) mouse spleen, 3) mouse ANA-1, 4) mouse RAW264.7, and 5) mouse EL-4 cell lysates using IL6 Antibody / Interleukin-6 Antibody demonstrates a distinct band at approximately 24 kDa across multiple immune-related tissues and cell lines, consistent with the expected molecular weight of Interleukin 6. IL6 is a key pro-inflammatory cytokine produced by activated immune cells and plays an important role in cytokine signaling, innate immune responses, lymphocyte activation, and regulation of inflammatory microenvironments. Detection in splenic tissue and established immune cell models supports the utility of this antibody for studies of inflammation, immunology, cytokine biology, and immune-mediated disease mechanisms. Predicted molecular weight: ~24 kDa, though higher molecular weight forms may be observed due to glycosylation.

Description

Il6 Antibody specifically detects Interleukin-6, a protein that in humans is encoded by the IL6 gene. IL-6 is an interleukin that acts as both a pro-inflammatory and anti-inflammatory cytokine. It is secreted by T cells and macrophages to stimulate immune response to trauma, especially burns or other tissue damage leading to inflammation. IL-6 is one of the most important mediators of fever and of the acute phase response. IL-6 is also essential for hybridoma growth and is found in many supplemental cloning media such as briclone. By in situ hybridization and Southern blot analysis of mouse-human hybrid cell lines, the IL6 gene is mapped to chromosome 7p15.

For additional validated antibodies targeting this important inflammatory cytokine, visit our IL6 Antibody / Pro-Inflammatory Cytokine Marker page featuring complementary reagents for studies of cytokine signaling, immune activation, and inflammation-associated disease processes.

Application Notes

Optimal dilution of the Il6 antibody should be determined by the researcher.

Immunogen

Amino acids KTIQLILKALEEFLKVTMRSTRQT from the rat protein were used as the immunogen for the Il6 antibody.

Storage

After reconstitution, the Il6 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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