

## Mouse IL-6 Antibody

Polyclonal Goat IgG Catalog Number: AB-406-NA

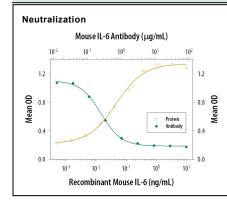
DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse IL-6 in direct ELISAs and Western blots. In direct ELISAs, approximately 30% cross-reactivity with recombinant rat IL-6 is observed and less than 5% cross-reactivity with recombinant human IL-6, recombinant feline IL-6, recombinant bovine IL-6, and recombinant porcine IL-6 is observed.
Source	Polyclonal Goat IgG
Purification	Protein A or G purified
Immunogen	E. coli-derived recombinant mouse IL-6 Phe25-Thr211 Accession # P08505
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.
APPLICATIONS	

#### APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

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[Nordan, R.P. and M. Potter (1986) Science 233:566]. The Neutralizati in the presence of 0.25 ng/mL Recombinant Mouse IL-6.	Measured by its ability to neutralize IL-6-induced proliferation in the T1165.85.2.1 mouse plasmacytoma cell line [Nordan, R.P. and M. Potter (1986) Science <b>233</b> :566]. The Neutralization Dose (ND <sub>50</sub> ) is typically 0.05-0.15 μg/mL in the presence of 0.25 ng/mL Recombinant Mouse IL-6.		

### DATA



# Cell Proliferation Induced by IL-6 and Neutralization by Mouse IL-6 Antibody.

Recombinant Mouse IL-6 (Catalog # 406-ML) stimulates proliferation in the T1165.85.2.1 mouse plasmacytoma cell line in a dose-dependent manner (orange line). Proliferation elicited by Recombinant Mouse IL-6 (0.25 ng/mL) is neutralized (green line) by increasing concentrations of Mouse IL-6 Polyclonal Antibody (Catalog # AB-406-NA). The ND<sub>50</sub> is

tvoically 0.05-0.15 µg/ml

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Reconstitution	Reconstitute at 1	mg/mL	in sterile PBS.
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Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below

## Stability & Storage

### Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

### BACKGROUND

Interleukin 6 (IL-6) is a pleiotropic α-helical cytokine that plays important roles in acute phase reactions, inflammation, hematopoiesis, bone metabolism, and cancer progression. IL-6 activity is central to the transition from acute inflammation to either acquired immunity or chronic inflammatory disease. It is secreted by multiple cell types as a 22-28 kDa phosphorylated and variably glycosylated molecule. Mature mouse IL-6 is 187 amino acids (aa) in length and shares 42% and 85% aa sequence identity with human and rat IL-6, respectively. Alternate splicing generates several isoforms with internal deletions. Mouse IL-6 is equally active on human and rat cells. IL-6 induces signaling through a cell surface heterodimeric receptor complex composed of a ligand binding subunit (IL-6 R) and a signal transducing subunit (gp130). IL-6 binds to IL-6 R, triggering IL-6 R association with gp130 and gp130 dimerization. gp130 is also a component of the receptors for CLC, CNTF, CT-1, IL-27, LIF, and OSM. Soluble forms of IL-6 R are generated by both alternate splicing and proteolytic cleavage. In a mechanism known as trans-signaling complexes of soluble IL-6 and IL-6 R elicit responses from gp130-expressing cells that lack cell surface IL-6 R. Trans-signaling enables a wider range of cell types to respond to IL-6, as the expression of gp130 is ubiquitous while that of IL-6 R is predominantly restricted to hepatocytes, leukocytes, and lymphocytes. Soluble splice forms of gp130 block trans-signaling from IL-6/IL-6 R but not from other cytokines that utilize gp130 as a coreceptor.

