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Product datasheet for AM50337PU-N

IL6 Mouse Monoclonal Antibody [Clone ID: AT1F10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	AT1F10
Applications:	ELISA, WB
Recommended Dilution:	The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended starting dilution is 1:1000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant human Interleukin 6 (30-212aa) purified from E. coli.
Specificity:	Recognizes Human IL6. Other species not tested.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	interleukin 6
Database Link:	Entrez Gene 3569 Human P05231

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Background: Interleukin-6, or IL-6, is a multifunctional protein, 212 amino acids in length that plays critical roles in host defense, immune response and hematopoiesis. interleukin-6 (IL-6) produced by T cells, macrophages, fibroblasts, endothelial and other cells. IL-6 induces proliferation or differentiation in many cell types including B cells, thymocytes and T cells. IL-6, in concert with TGF-Beta, is important for developing Th17 responses. The IL-6 receptor is a trimeric complex composed of an IL-6-specific å chain and a homodimer of the gp130 glycoprotein common to the IL-6, IL-11, CNTF, OSM and LIF receptors. Stimulation with IL-6 leads to gp130 homodimerization and the activation of associated kinases JAK1 and JAK2. Once activated, JAK1 and JAK2 phosphorylate Stat3, causing its nuclear translocation and transcription of Stat3-responsive genes. IL-6 has also been shown to activate the Ras/MAP kinase pathway, which regulates NFIL6 transcription.

Synonyms: IL-6, Interferon beta-2, IFNB2, B-cell stimulatory factor 2, BSF-2, CDF

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Cytokine-cytokine receptor interaction, Cytosolic DNA-sensing pathway, Graft-versus-host disease, Hematopoietic cell lineage, Hypertrophic cardiomyopathy (HCM), Jak-STAT signaling pathway, NOD-like receptor signaling pathway, Pathways in cancer, Prion diseases, Toll-like receptor signaling pathway