

Anti-IL-6 Antibody

Catalog # ABO11758

Product Information

Application	WB, E
Primary Accession	P08505
Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Interleukin-6(IL6) detection. Tested with WB, ELISA in Mouse.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	16193
Other Names	Interleukin-6, IL-6, B-cell hybridoma growth factor, Interleukin HP-1, IL6, IL-6
Calculated MW	24384
Application Details	ELISA , 0.1-0.5 μ g/ml, Mouse, - Western blot, 0.1-0.5 μ g/ml, Mouse
Subcellular Localization	Secreted.
Source	Eukaryota
Protein Name	Interleukin-6
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E.coli-derived mouse IL-6 recombinant protein (Position: F25-T211). Mouse IL-6 shares 40% and 85% amino acid (aa) sequences identity with human and rat IL-6, respectively.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Protein Information

Name	IL6 {ECO:0000312 MGI:MGI:96559}
Synonyms	IL-6
Function	Cytokine with a wide variety of biological functions in immunity, tissue regeneration, and metabolism (Probable). Binds to IL6R, then the complex associates to the signaling subunit IL6ST/gp130 to trigger the intracellular IL6-signaling pathway (PubMed: 8910279). The interaction with the membrane-bound IL6R and IL6ST stimulates 'classic signaling', whereas the binding of IL6 and soluble IL6R to IL6ST stimulates 'trans-signaling'. Alternatively, 'cluster signaling' occurs when membrane-bound IL6:IL6R complexes on transmitter cells activate IL6ST receptors on neighboring receiver cells (PubMed: 27893700).
Cellular Location	Secreted.
Tissue Location	Expressed by dendritic cells and macrophages (PubMed:23045607, PubMed:27893700). Expressed by activated follicular B cells (PubMed:23045607). Abundantly expressed in the central nervous system (CNS), particularly the hypothalamic region (PubMed:28402851)

Background

Interleukin-6 (IL-6) is 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. Bowcock et al. (1988) assigned the IL6 gene to chromosome 7p21. By in situ hybridization and Southern blot analysis of mouse-human hybrid cell lines, Sutherland et al. (1988) mapped the IL-6 gene to chromosome 7p15.

Images



Anti-IL-6 Picoband antibody, ABO11758-1.jpgAll lanes:
Anti-IL-6(ABO11758) at 0.5ug/mlLane 1: HEPA Whole Cell
Lysate at 40ugLane 2: NIH Whole Cell Lysate at 40ug
Predicted bind size: 24KDObserved bind size: 24KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.