

Rabbit Anti-Human Interleukin 6 Monoclonal Antibody

Cat. No. CAB11567RH **Lot. No.** (See product label)

SPECIFICATION

Product Overview Rabbit Monoclonal Antibody to Human Interleukin 6

Species Human

Source Rabbit

Antigen Description

Interleukin 6 (IL-6, IL6) is a potent pleiotropic cytokine that regulates cell growth and differentiation of various tissues, and is known particularly for its role in the immune response and acute phase reactions. IL-6/IL6 is a cytokine with a wide variety of biological functions and belongs to the IL-6 superfamily. IL-6/IL6 is a potent inducer of the acute phase response and plays an essential role in the final differentiation of B-cells into Ig-secreting cells Involved in lymphocyte and monocyte differentiation. IL-6/IL6 is an interleukin that acts as both a pro-inflammatory and anti-inflammatory cytokine. The role of IL-6 as an anti-inflammatory cytokine is mediated through its inhibitory effects on TNF-alpha and IL-1, and activation of IL-1Ra and IL-10. IL-6/IL6 is secreted by T cells and macrophages to stimulate immune response to trauma, especially burns or other tissue damage leading to inflammation. IL-6/IL6 is also essential for hybridoma growth and is found in many supplemental cloning media such as briclone. Inhibitors of IL-6 are used to treat postmenopausal osteoporosis. IL-6/IL6 is thought to be a reason why obese individuals have higher endogeneous levels of CRP. Intranasally administered IL-6 was shown to improve sleep-associated consolidation of emotional memories.

Specificity Human IL-6. No cross-reactivity with human cell lysate (293 cell line) in WB and

 Tel: 1-631-559-9269 1-516-512-3133

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	ELISA.
Immunogen	Recombinant Human IL-6 Protein
Isotype	Rabbit IgG
Cross Reactivity	057
Clone	A058
Applications	WB; ELISA
Dilution	Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Human IL6 in WB. Using a DAB detection system, the detection limit for Human IL6 is approximately 0.25 ng/lane under non-reducing conditions and 0.5 ng/lane under reducing conditions. Direct ELISA: This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Human IL6. The detection limit for Human IL6 is approximately 0.00245 ng/well.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Human IL-6 (rh IL-6; Val 30 - Met 212; NP_000591.1)
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

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GENE INFORMATION

Gene Name	IL6 interleukin 6 (interferon, beta 2) [Homo sapiens]
Official Symbol	IL6
Synonyms	IL6; interleukin 6 (interferon, beta 2); IFNB2; interleukin-6; BSF2; HGF; HSF; IL 6; CDF; BSF-2; IFN-beta-2; interferon beta-2; interleukin BSF-2; hybridoma growth factor; CTL differentiation factor; B-cell stimulatory factor 2; B-cell differentiation factor; IL-6;
Gene ID	3569
mRNA Refseq	NM_000600
Protein Refseq	NP_000591
MIM	147620
UniProt ID	P05231
Chromosome Location	7p21-p15
Pathway	ATF-2 transcription factor network, organism-specific biosystem; Adipogenesis, organism-specific biosystem; African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem;
Function	cytokine activity; cytokine activity; growth factor activity; interleukin-6 receptor binding;

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contributes_to interleukin-6 receptor binding; interleukin-6 receptor binding;

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