



Anti-IL6 monoclonal antibody, clone 6B4 IGH 54 (CABT-48520RM)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

This product is specific for mouse IL-6 (interleukin-6), a multifunctional pro-inflammatory cytokine secreted by activated T cells, macrophages, endothelial cells, fibroblasts and osteoblasts, which acts as the principle inducer of the acute phase response in the liver. IL-6 signals through a membrane bound receptor complex consisting of the ligand-binding IL-6R α chain (CD126) and the signal-transducing component gp130 (CD130), but can also stimulate cells expressing gp130 through a soluble IL-6R. IL-6 has been shown to stimulate B cell differentiation and subsequent immunoglobulin production, promote hybridoma growth, as well as regulating bone metabolism and stimulating energy mobilisation in muscle and fatty tissue. Clone 6B4 IGH 54 can be used to neutralise the activity of 50pg/ml of recombinant mouse IL-6 by >95% in a functional assay.

Specificity	IL6
Immunogen	Natural partially purified mouse IL-6.
Isotype	IgG1
Source/Host	Rat
Species Reactivity	Mouse
Clone	6B4 IGH 54
Conjugate	Unconjugated
Applications	ELISA; FA
Format	Purified IgG - liquid
Size	100 μ g

Preservative	None
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	Il6 interleukin 6 [Mus musculus (house mouse)]
Official Symbol	IL6
Synonyms	IL6; interleukin 6; Il-6; interleukin-6; B-cell hybridoma growth factor; interleukin HP-1;
Entrez Gene ID	16193
Protein Refseq	NP_112445
UniProt ID	P08505
Chromosome Location	5 B1; 5 15.7 cM
Pathway	ARMS-mediated activation; Activated TLR4 signalling; Adipogenesis; African trypanosomiasis; Amoebiasis; Androgen Receptor Signaling Pathway; Axon guidance; Cellular Senescence;
Function	cytokine activity; growth factor activity; interleukin-6 receptor binding; contributes_to interleukin-6 receptor binding; protein binding; receptor binding;