

Datasheet for ABIN7321248

IL-6 Protein[Go to Product page](#)**1** Image

Overview

Quantity:	100 µg
Target:	IL-6 (IL6)
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	Recombinant Rat IL-6/Interleukin-6 Protein (Active)
Sequence:	Phe25-Thr211
Characteristics:	A DNA sequence encoding the rat IL6 (Phe25-Thr211) was expressed and purified with an initial Met.
Purity:	> 90 % as determined by SDS-PAGE
Biological Activity Comment:	Measured in a cell proliferation assay using T1165 mouse plasmacytoma cells. The ED50 for this effect is typically 1-6 ng/ml.

Target Details

Target:	IL-6 (IL6)
Alternative Name:	IL-6/Interleukin-6 (IL6 Products)
Background:	Background: Interleukin-6 (IL-6) is a multifunctional α -helical cytokine that regulates cell growth and differentiation of various tissues, which is known particularly for its role in the immune

Target Details

response and acute phase reactions. IL-6 protein is secreted by a variety of cell types including T cells and macrophages as phosphorylated and variably glycosylated molecule. It exerts actions through the its heterodimeric receptor composed of IL-6R that lacks the tyrosine/kinase domain and binds IL-6 with low affinity, and ubiquitously expressed glycoprotein 130 (gp130) that binds the IL-6. IL-6R complex with high affinity and thus transduces signals. IL-6 is also involved in hematopoiesis, bone metabolism, and cancer progression, and has been defined an essential role in directing transition from innate to acquired immunity. Immune Checkpoint Immunotherapy Cancer Immunotherapy Targeted Therapy

Synonym: IL6

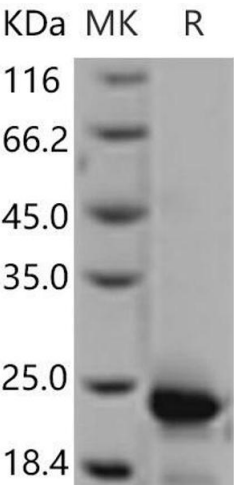
Molecular Weight:	21.9 kDa
NCBI Accession:	NP_036721
Pathways:	TLR Signaling , Hormone Transport , Negative Regulation of Hormone Secretion , Myometrial Relaxation and Contraction , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , Regulation of Carbohydrate Metabolic Process , Autophagy , Cell RedoxHomeostasis , Cancer Immune Checkpoints , Inflammasome

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 40 % acetonitrile, 0.1 % TFA
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.