Datasheet for ABIN2181322

IL-6 Protein (AA 30-212)

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Overview

Quantity:	50 µg
Target:	IL-6 (IL6)
Protein Characteristics:	AA 30-212
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Brand:	ActiveMax®
Sequence:	AA 30-212
Characteristics:	This protein carries no "tag". The protein has a calculated MW of 20.8 kDa. The protein migrates as 24-27 kDa under reducing (R) condition (SDS-PAGE) due to different glycosylation.
Purity:	>90 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	IL-6 (IL6)
Alternative Name:	IL-6 (IL6 Products)

Target Details

Background:	Interleukin 6 (IL-6) is also known as HGF, BSF2,HSF, IFNB2 and IL-6, originally identified as a B cell differentiation factor, is a multifunctional cytokine that regulates immune responses, hematopoiesis, acute phase responses, and inflammatory reactions.It is secreted by T cells, macrophages , monocytes, fibroblasts,endothelial cells,et.al. to stimulate immune response to trauma, especially burns or other tissue damage leading to inflammation. Interleukin 6 has been shown to interact with interleukin-6 receptor and glycoprotein. IL-6 is relevant to many disease processes such as diabetes,atherosclerosis, depression,Alzheimer's Disease,systemic,lupus erythematosus,prostate cancer and rheumatoid arthritis. Advanced/metastatic cancer patients have higher levels of IL-6 in their blood.Hence there is an interest in developing anti-IL-6 agents as therapy against many of these diseases.
Molecular Weight:	20.8 kDa
NCBI Accession:	NP_000591
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

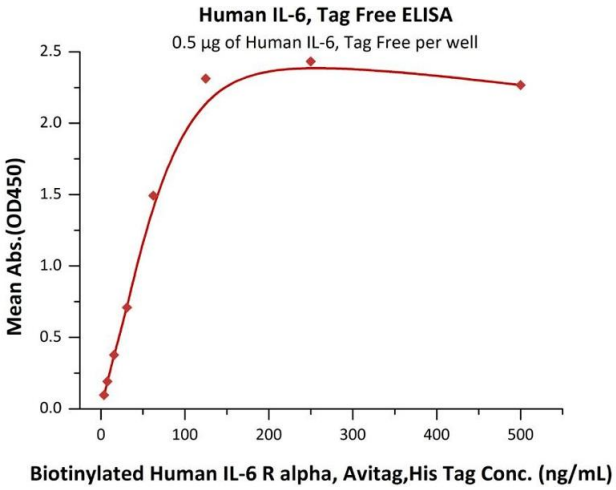
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After reconstitution under sterile conditions for 3 months (-70 °C).

Publications

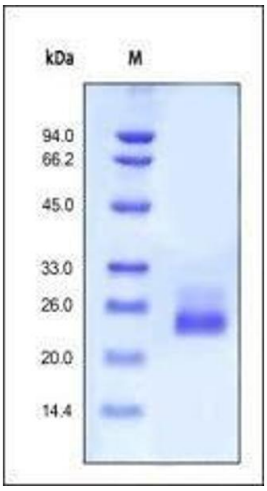
Product cited in:	Mettler Izquierdo, Varela, Park, Collarini, Lu, Pramanick, Rucker, Lopalco, Etches, Harriman: " High-efficiency antibody discovery achieved with multiplexed microscopy." in: **Microscopy (Oxford, England)**, Vol. 65, Issue 4, pp. 341-52, (2018) (PubMed).

Images



ELISA

Image 1. Immobilized Human IL-6, Tag Free (ABIN2181322,ABIN3071739) at 5 μg/mL (100 μL/well) can bind Biotinylated Human IL-6 R alpha, Avitag,His Tag (ABIN5526620,ABIN5526621) with a linear range of 4-125 ng/mL (QC tested).



SDS-PAGE

Image 2.