

Datasheet for ABIN2181394

IL6RA Protein (AA 20-365) (His tag)**2** Images**1** Publication[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	IL6RA
Protein Characteristics:	AA 20-365
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL6RA protein is labelled with His tag.

Product Details

Sequence:	AA 20-365
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 40 kDa. The protein migrates as 60-70 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>92 % 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:	IL6RA
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Target Details

Alternative Name:	IL-6 R alpha (IL6RA Products)
Background:	<p>Interleukin 6 receptor (IL6R) is also known as CD126 (Cluster of Differentiation 126) , 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. IL6R is a protein complex consisting of a IL-6 receptor subunit (IL6R) and interleukin 6 signal transducer Glycoprotein 130. IL6R also denotes the human gene encoding this subunit. Alternatively spliced transcript variants encoding distinct isoforms have been reported. IL6R subunit also shared by many other cytokines. The soluble form of IL6R arises from proteolytic cleavage of membrane-bound IL6Rα, and acts agonistically by making the IL6 ligand accessible to the signal transducer gp130. Dysregulated production of IL6 and IL6R are implicated in the pathogenesis of several inflammatory diseases and malignancies such as multiple myeloma, rheumatoid arthritis, or osteoporosis, and it has been reported that a humanized anti-IL6R monoclonal antibody is a promising agent applicable to the therapeutic approach for IL6 driven diseases. Interleukin-6 receptor has been shown to interact with Interleukin 6 and Ciliary neurotrophic factor.</p>
Molecular Weight:	39.4 kDa
NCBI Accession:	NP_000556
Pathways:	JAK-STAT Signaling , Autophagy , Growth Factor Binding , Cancer Immune Checkpoints

Application Details

Restrictions:	For Research Use only
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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

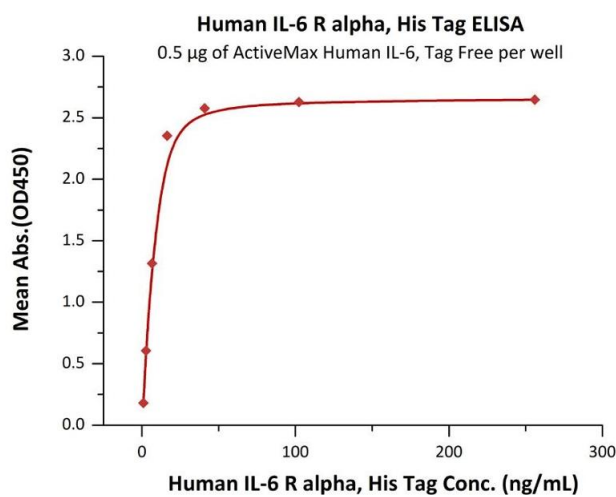
Product cited in:	Igarashi, Miura, Williams, Jaksch, Kadowaki, Yamauchi, Guarente: "NAD+ supplementation
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rejuvenates aged gut adult stem cells." in: **Aging cell**, Vol. 18, Issue 3, pp. e12935, (2020) ([PubMed](#)).

Park, Choi, Kim, Cheong, Jeong: "AhR activation by 6-formylindolo[3,2-b]carbazole and 2,3,7,8-tetrachlorodibenzo-p-dioxin inhibit the development of mouse intestinal epithelial cells." in: **Environmental toxicology and pharmacology**, Vol. 43, pp. 44-53, (2017) ([PubMed](#)).

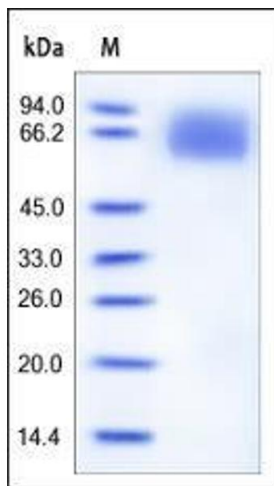
Das, Png, Oancea, Hasnain, Lourie, Proctor, Eri, Sheng, Crane, Florin, McGuckin: "Glucocorticoids alleviate intestinal ER stress by enhancing protein folding and degradation of misfolded proteins." in: **The Journal of experimental medicine**, Vol. 210, Issue 6, pp. 1201-16, (2013) ([PubMed](#)).

Images



ELISA

Image 1. Immobilized Human IL-6, Tag Free (ABIN2181322,ABIN3071739) at 5 µg/mL (100 µL/well) can bind Human IL-6 R alpha, His Tag (ABIN2181394,ABIN2181393) with a linear range of 1-16 ng/mL (QC tested).



SDS-PAGE

Image 2. Human IL-6 R alpha, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 92%.