

ARG81376 Rat IL6R alpha ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG81376 Rat IL6R alpha ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat IL6R alpha in serum, plasma and cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Specificity	No Cross-Reactivity for the following recombinant Rat proteins: ApoA1, BMP1, BMP2, BMP3, BMP4, BMP7, CRP, HGF, HSP27, IL1 alpha, IL1 RI, IL1 beta, IL1R alpha, IL2, IL4, IL5, IL6, IL8, IL10, IL12, IL13, IL15, IL17C, IL21, IL23, IFN, MMP2, sIL 2R, PDGF, PLA2G7, prolactin, TGF beta 1, TGF beta 2, TGF beta 3, TLR1, TLR2, TLR3, TNF alpha, TNF RI, TNF RII, VEGF.
Target Name	IL6R alpha
Conjugation	HRP
Conjugation Note	Read at 450 nm.
Sensitivity	3 pg/ml
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	15.6 - 1000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay %CV: 6 Inter-Assay %CV: 9
Alternate Names	IL-6R-alpha; CD126; IL6RA; IL-6 receptor subunit alpha; IL-6R subunit alpha; IL6Q; CD antigen CD126; IL-6R 1; IL-6RA; gp80; IL6RQ; Interleukin-6 receptor subunit alpha; IL-6R-1; Membrane glycoprotein 80

Application Instructions

Assay Time	~ 3 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	IL6R
Gene Full Name	interleukin 6 receptor
Background	This gene encodes a subunit of the interleukin 6 (IL6) receptor complex. Interleukin 6 is a potent

pleiotropic cytokine that regulates cell growth and differentiation and plays an important role in the immune response. The IL6 receptor is a protein complex consisting of this protein and interleukin 6 signal transducer (IL6ST/GP130/IL6-beta), a receptor subunit also shared by many other cytokines. Dysregulated production of IL6 and this receptor are implicated in the pathogenesis of many diseases, such as multiple myeloma, autoimmune diseases and prostate cancer. Alternatively spliced transcript variants encoding distinct isoforms have been reported. A pseudogene of this gene is found on chromosome 9.[provided by RefSeq, May 2011]

Function

Part of the receptor for interleukin 6. Binds to IL6 with low affinity, but does not transduce a signal. Signal activation necessitate an association with IL6ST. Activation may lead to the regulation of the immune response, acute-phase reactions and hematopoiesis.

Low concentration of a soluble form of IL6 receptor acts as an agonist of IL6 activity. [UniProt]

Highlight

Related products:

[IL6R alpha antibodies](#); [IL6R alpha ELISA Kits](#);

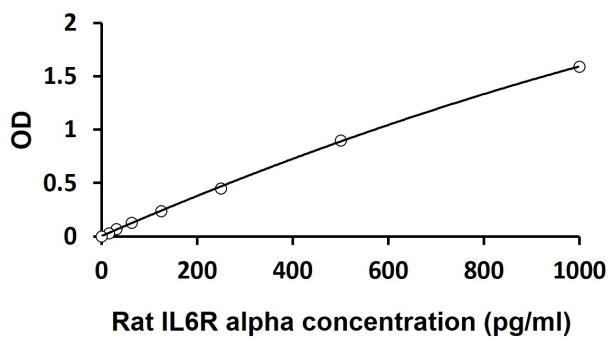
New ELISA data calculation tool:

[Simplify the ELISA analysis by GainData](#)

PTM

A short soluble form may also be released from the membrane by proteolysis. [UniProt]

Images



ARG81376 Rat IL6R alpha ELISA Kit standard curve image

ARG81376 Rat IL6R alpha ELISA Kit results of a typical standard run with optical density reading at 450 nm.