

Mouse Soluble Interleukin 6 Receptor ELISA Kit | sIL-6R elisa kit

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CATALOG #
AAA97952

REACTIVITY
Mouse

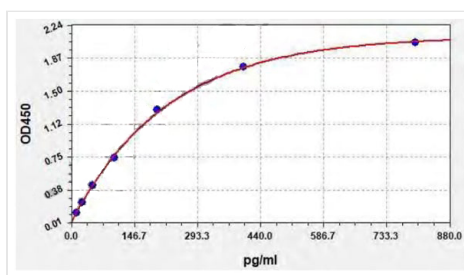
PRODUCT SYNONYMS

Soluble Interleukin 6 Receptor; Mouse Soluble Interleukin 6 Receptor ELISA Kit; sIL-6R; sIL-6R elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Specifically recognize sIL-6R, no obvious cross reaction with other analogues
Sequence Length	53
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	12.5-800pg/ml
Sensitivity	7.5pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for sIL-6R elisa kit	Background: The IL-6 receptor is a heterodimeric complex that consists of a ligand-binding IL-6 receptor alpha (IL-6Ralpha) subunit and a signaling component, gp130. Binding of IL-6 to IL-6Ralpha results in receptor dimerization with gp130 and subsequent STAT3 activation. IL-6Ralpha is cleaved from the cell surface by ADAM17. Soluble IL-6Ralpha binds to IL-6 and can stimulate signaling via membrane bound gp130 in a process known as trans-signaling. It is through trans-signaling that IL-6 stimulates cells that do not express membrane bound IL-6Ralpha. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti sIL-6R antibody was precoated onto the 96-well plate. The biotin conjugated anti sIL-6R antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with sIL-6R conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of sIL-6R in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	633863
NCBI GeneID	3570
Molecular Weight	40,237 Da
NCBI Official Full Name	Soluble interleukin-6 receptor, partial
NCBI Official Synonym Full Names	interleukin 6 receptor
NCBI Official Symbol	IL6R
NCBI Official Synonym Symbols	IL6Q; gp80; CD126; IL6RA; IL6RQ; IL-6RA; IL-6R-1
NCBI Protein Information	interleukin-6 receptor subunit alpha
UniProt Protein Name	Interleukin-6 receptor subunit alpha
UniProt Gene Name	IL6R
UniProt Synonym Gene Names	IL-6 receptor subunit alpha; IL-6R subunit alpha; IL-6R-alpha; IL-6RA; gp80
UniProt Entry Name	IL6RA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.