IL6R Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	IL6R, Monoclonal Antibody
Full Product Name	IL6R (Interleukin 6 Receptor, CD126, IL-6R-1, IL-6R-alpha, IL6RA, MGC104991) (MaxLight 405)
Product Gene Name	anti-IL6R antibody
Product Synonym Names	Interleukin 6 Receptor; CD126; IL-6R-1; IL-6R-alpha; IL6RA; MGC104991
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	1.0e+11
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified
Specificity	Recognizes IL6R.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recov of product, centrifuge the original vial prior to removing the cap.
OMIM	147880
3D Structure	ModBase 3D Structure for P08887
Immunogen	IL6R (NP_000556, 21aa-120aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	APRRCPAQEVARGVLTSLPGDSVTLTCPGVEPEDNATVHWVLRKPAAGSHPSRWAGMGRRLLLRSVQLHDSGNYSCYRAGRPAGTVHLLVDVPPEEP
Conjugate	MaxLight405
Product Categories/Family for anti-IL6R antibody	Antibodies; Interleukin
Applications Tested/Suitable for anti-IL6R antibody	Western Blot (WB)
Application Notes for anti-IL6R antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-IL6R antibody	Interleukin 6 (IL6) is a potent pleiotropic cytokine that regulates cell growth and differentiation and plays an important role in immune response. The pro encoded by this gene is a subunit of the receptor complex for IL6. The IL6 receptor is a protein complex consisting of this protein and interleukin 6 signa 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. [provided by RefSeq]

Other Notes	Small volumes of anti-IL6R antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessa briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IL6R purchase	MBS6196243 is an antibody targeting IL6R. Also known as IL6R (Interleukin 6 Receptor, CD126, IL-6R-1, IL-6R-alpha, IL6RA, MGC104991) (MaxLight 405). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL6R. It may not necessarily be applicable to this product.

NCBI GI #	4504673
NCBI GeneID	3570
NCBI Accession #	NP_000556
UniProt Primary Accession #	P08887
UniProt Related Accession #	P08887
GenBank Nucleotide #	NP_000556.1
NCBI Official Full Name	interleukin-6 receptor subunit alpha isoform 1
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
UniProt Protein Name	Interleukin-6 receptor subunit alpha
UniProt Synonym Protein Names	IL-6R 1; Membrane glycoprotein 80
Protein Family	Interleukin-6 receptor
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
NCBI Protein Information	interleukin-6 receptor subunit alpha
NCBI Summary for IL6R	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]

UniProt Comments for IL6R	IL6R: 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. Belongs to the type I cytokine receptor family. Type 3 subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Receptor, cytokine; Membrane protein, integral Chromosomal Location of Human Ortholog: 1q21 Cellular Component: extracellular space; basolateral plasma membrane; apical plasma membrane; extracellular region; plasma membrane; interleukin-6 receptor complex Molecular Function: protein binding; interleukin-6 binding; protein homodimerization activity; enzyme binding; interleukin-6 receptor binding; ciliary neurotrophic factor receptor activity; interleukin-6 receptor activity Biological Process: positive regulation of smooth muscle cell proliferation; negative regulation of collagen biosynthetic process; cytokine and chemokine mediated signaling pathway; neutrophil mediated immunity; positive regulation of interleukin-6 production; positive regulation of leukocyte chemotaxis; defense response to Gram-negative bacterium; endocrine pancreas development; positive regulation of chemokine production; activation of NF-kappaB transcription factor; positive regulation of tyrosine phosphorylation of Stat3 protein; monocyte chemotaxis; positive regulation of osteoblast differentiation; positive regulation of peptidyl-tyrosine phosphorylation; defense response to Gram-positive bacterium; positive regulation of MAPKKK cascade; response to cytokine stimulus; positive regulation of cell proliferation; acute-phase response; negative regulation of interleukin-8 production; hepatic immune response Disease: Interleukin 6, Serum Level Of, Quantitative Trait Locus; Soluble Interleukin-6 Receptor, Serum Level Of, Quantitative Trait Locus
Research Articles on IL6R	**1.** The authors show that a subset of diffuse large B-cell lymphoma cases have evolved mechanisms that ensure constitutive activation of the IL-6 signaling pathway, i.e., the expression of both chains of the IL-6R, the expression of the cytokine itself, and the mutational inactivation of a negative regulator of IL-6 signaling, SOCS1.
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