

IL-6R alpha Rabbit pAb

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Catalog # AP94137

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P22272
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	50455
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse IL-6R alpha
Epitope Specificity	381-460/460
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Isoform 1: Basolateral cell membrane; Single-pass type I membrane protein. Isoform 2: Secreted.
SIMILARITY	Belongs to the type I cytokine receptor family. Type 3 subfamily. Contains 1 fibronectin type-III domain. Contains 1 Ig-like C2-type (immunoglobulin-like) domain.
SUBUNIT	Hexamer of two molecules each of IL6, IL6R and IL6ST.
Post-translational modifications	A short soluble form may also be released from the membrane by proteolysis.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Interleukin 6 (IL6) is a potent pleiotropic cytokine that regulates cell growth and differentiation and plays an important role in immune response. The protein 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 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. [provided by RefSeq].

Additional Information

Gene ID	16194
Other Names	Interleukin-6 receptor subunit alpha, IL-6 receptor subunit alpha, IL-6R subunit alpha, IL-6R-alpha, IL-6RA, IL-6R 1, CD126, Soluble interleukin-6 receptor subunit alpha, sIL6R, Il6ra {ECO:0000312 MGI:MGI:105304}, Il6r
Target/Specificity	Isoform 2 is expressed in peripheral blood mononuclear cells and weakly

found in urine and serum.

Dilution

IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name

Il6ra {ECO:0000312 | MGI:MGI:105304}

Synonyms

Il6r

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 leads to the regulation of the immune response, acute-phase reactions and hematopoiesis. The interaction with membrane-bound IL6R and IL6ST stimulates 'classic signaling', the restricted expression of the IL6R limits classic IL6 signaling to only a few tissues such as the liver and some cells of the immune system. Whereas the binding of IL6 and soluble IL6R to IL6ST stimulates 'trans-signaling'. Alternatively, 'cluster signaling' occurs when membrane-bound IL6:IL6R complexes on transmitter cells activate IL6ST receptors on neighboring receiver cells.

Cellular Location

[Interleukin-6 receptor subunit alpha]: Cell membrane; Single-pass type I membrane protein

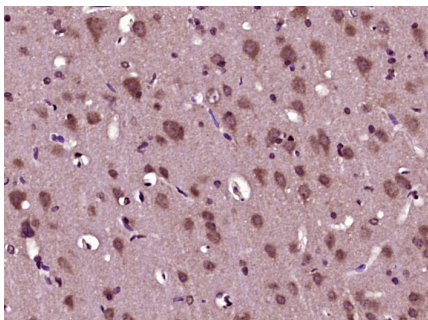
Tissue Location

Expressed by dendritic cells.

Background

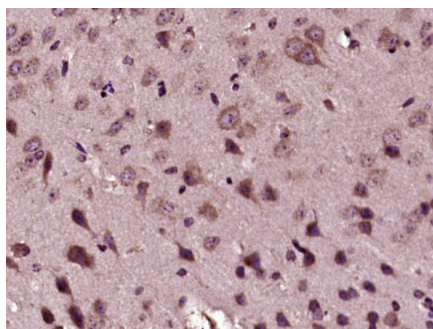
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Images



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (IL-6R alpha) Polyclonal Antibody, Unconjugated (AP94137) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (IL-6R alpha) Polyclonal Antibody, Unconjugated (AP94137) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit)



(sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.