

LIFR Rabbit pAb

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Catalog # AP94740

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O70535
Reactivity	Rat, Human, Mouse
Predicted	Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	122394
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from the middle of rat LIFR
Epitope Specificity	451-580/1093
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	Cell membrane; Single-pass type I membrane protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a protein that belongs to the type I cytokine receptor family. This protein combines with a high-affinity converter subunit, gp130, to form a receptor complex that mediates the action of the leukemia inhibitory factor, a polyfunctional cytokine that is involved in cellular differentiation, proliferation and survival in the adult and the embryo. Mutations in this gene cause Schwartz-Jampel syndrome type 2, a disease belonging to the group of the bent-bone dysplasias. A translocation that involves the promoter of this gene, t(5;8)(p13;q12) with the pleiomorphic adenoma gene 1, is associated with salivary gland pleiomorphic adenoma, a common type of benign epithelial tumor of the salivary gland. Multiple splice variants encoding the same protein have been found for this gene.

Additional Information

Gene ID	81680
Other Names	Leukemia inhibitory factor receptor, LIF receptor, LIF-R, CD118, Lifr
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.

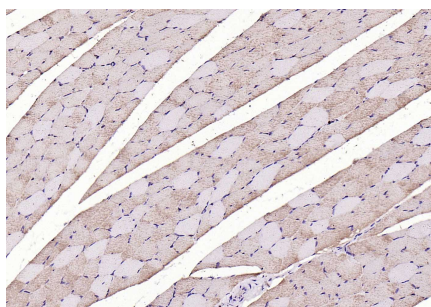
Protein Information

Name	Lifr {ECO:0000312 RGD:621431}
Function	Functions as a signal-transducing subunit either in complex with IL6ST/gp130 or as part of the ciliary neurotrophic factor receptor (CNTFR) complex composed by CNTFR, IL6ST/gp130 and LIFR. Signal transmission is initiated either by binding directly to cytokines, such as OSM or LIF, or through the binding of other cytokines, like CNTF, CLCF1 or the heterodimeric complex CRLF1-CLCF1 to the non-signaling receptor CNTFR; ligand binding induces heterodimerization of IL6ST/gp130 and LIFR which activates JAK tyrosine kinases bound to their intracellular domains. These kinases subsequently phosphorylate the homodimer or heterodimer form of IL6ST/gp130. The tyrosine phosphorylated signaling receptors serve in turn as docking sites for recruitment and activation of signal transducer and activators of transcription (STATs). Engages sites 3 of ligands cytokines.
Cellular Location	Cell membrane {ECO:0000250 UniProtKB:P42702}; Single-pass type I membrane protein {ECO:0000250 UniProtKB:P42702}

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (rat skeletal muscle); 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 (LIFR) Polyclonal Antibody, Unconjugated (AP94740) at 1:200 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'.