

Rabbit Anti-LIFR Polyclonal Antibody

CPB-303RH Rabbit(LIFR)

Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview	Rabbit Anti-LIFR Polyclonal Antibody
Antigen Description	Leukemia inhibitory factor receptor (LIFR), also known as CD118, is the receptor for leukemia inhibitory factor (LIF), a pleiotropic cytokine affecting the differentiation, survival, and proliferation of a wide variety of cells in the adult and the embryo. LIF action appears to be mediated through a high-affinity heterodimeric receptor complex consisting of two membrane glycoproteins: an α subunit that binds LIF with low affinity and the 130 kDa (gp130) subunit that does not bind LIF by itself, but is required for high-affinity binding of LIF by the complex. The gp130 subunit was first described as the signal transducing subunit of the high-affinity IL-6 receptor complex. Human LIFR α subunit is a 1097 aa type I membrane protein with a 44 aa residue signal peptide, a 789 aa residue extracellular domain including two cytokine receptor domains and three fibronectin type III repeats, a 26 aa residue transmembrane domain, and a 238 aa residue cytoplasmic domain. Defects in LIFR are the cause of Stieve-Wiedemann syndrome (SWS), a severe autosomal recessive condition and belong to the group of the bent-bone dysplasias.
specificity	Human LIFR / CD118.
Target	LIFR
Immunogen	Recombinant human LIFR protein.
Host	Rabbit
Isotype	IgG
Species	Human
conjugation	N/A
Applications	N/A
Preparation	Produced in rabbits immunized with purified, human cell-derived, recombinant human LIFR / CD118 (Met 1-Ser 833). Total IgG was purified by Protein A affinity chromatography.

PACKAGING

Format	0.2 μ m filtered solution in PBS with 5% trehalose.
Storage	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -70°C. Preservative -Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

ANTIGEN GENE INFORMATION

Gene Name	LIFR leukemia inhibitory factor receptor alpha [Homo sapiens]
Official Symbol	LIFR
Synonyms	LIFR; leukemia inhibitory factor receptor alpha; leukemia inhibitory factor receptor; CD118; LIF receptor; CD118 antigen; SWS; SJS2; STWS; LIF-R; FLJ98106; FLJ99923;
GeneID	3977
mRNA Refseq	NM_001127671

Protein Refseq [NP_001121143](#)

MIM [151443](#)

UniProt ID P42702

Chromosome Location 5p13-p12

Pathway Adipogenesis, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Jak-STAT signaling pathway, organism-specific biosystem; Jak-STAT signaling pathway, conserved biosystem;

Function contributes_to ciliary neurotrophic factor receptor activity; ciliary neurotrophic factor receptor binding; cytokine binding; growth factor binding; leukemia inhibitory factor receptor activity; contributes_to leukemia inhibitory factor receptor activity; contributes_to oncostatin-M receptor activity; receptor activity;