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# LIFR Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21029c

## Product Information

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|---|---|
| **Application** | WB, E |
| **Primary Accession** | P42702 |
| **Reactivity** | Human, Rat, Mouse |
| **Predicted** | Bovine, Canine, Rabbit, Chicken |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB51633 |
| **Calculated MW** | 123743 |

## Additional Information

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|---|---|
| **Gene ID** | 3977 |
| **Other Names** | Leukemia inhibitory factor receptor, LIF receptor, LIF-R, CD118, LIFR |
| **Target/Specificity** | This LIFR antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 1021-1055 amino acids from the C-terminal region of human LIFR. |
| **Dilution** | WB~~1:1000 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | LIFR Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | LIFR ( HGNC:6597) |
| **Function** | [Isoform 1]: Functions as a membrane-bound 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 (PubMed:11285233, PubMed:11294841, PubMed:1542794, PubMed:39532904, PubMed:9030543, PubMed:9188471). Signal transmission |

is initiated either by binding directly to cytokines, such as OSM or LIF or CTF1, 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 (PubMed:11285233, PubMed:11294841, PubMed:1542794, PubMed:1915266, PubMed:9030543, PubMed:9188471). These kinases subsequently phosphorylate the homodimer or heterodimer form of IL6ST/gp130 (PubMed:11285233, PubMed:11294841, PubMed:9030543). The tyrosine phosphorylated signaling receptors serve in turn as docking sites for recruitment and activation of signal transducer and activators of transcription (STATs) (PubMed:11285233, PubMed:11294841, PubMed:9030543, PubMed:9188471). Engages sites 3 of ligands cytokines (PubMed:36930708).

**Cellular Location** [Isoform 1]: Cell membrane; Single-pass type I membrane protein

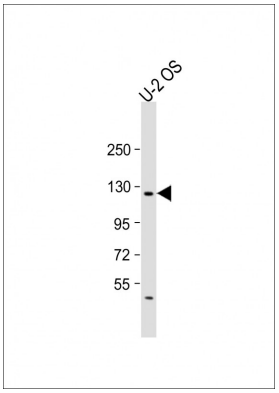
## Background

Signal-transducing molecule. May have a common pathway with IL6ST. The soluble form inhibits the biological activity of LIF by blocking its binding to receptors on target cells.

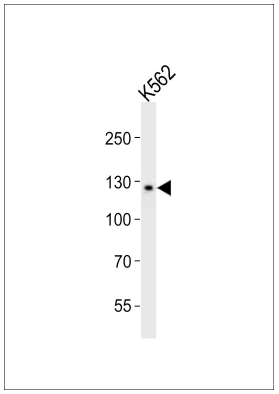
## References


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Voz M.L.,et al.Oncogene 16:1409-1416(1998).
Dephoure N.,et al.Proc. Natl. Acad. Sci. U.S.A. 105:10762-10767(2008).
Skiniotis G.,et al.Mol. Cell 31:737-748(2008).


## Images




Anti-LIFR Antibody (C-term) at 1:2000 dilution + U-2OS whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 124 kDa Blocking/Dilution buffer: 5% NFDM/TBST.




Western blot analysis of lysate from K562 cell line, using LIFR Antibody (C-term)(Cat. #AP21029c). AP21029c was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

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