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anti-LIF antibody (AA 24-203)





Publications



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Overview

Quantity:	100 μg
Target:	LIF
Binding Specificity:	AA 24-203
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LIF antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Brand:	Picoband™
Immunogen:	E. coli-derived mouse LIF recombinant protein (Position: S24-F203).
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for LIF detection. Tested with WB, ELISA(Cap) in Human, Mouse, Rat.

Target Details

Target:	LIF
Alternative Name:	Lif (LIF Products)
Background:	Synonyms: Leukemia inhibitory factor, LIF, Differentiation-stimulating factor, D factor, Lif

Background: LIF is a pleiotropic cytokine produced at the maternal-fetal interface which has	
been shown to play an essential role in implantation in mice. This gene is mapped to 22q11-	
q12.2, between the Philadelphia translocation BCR gene and the breakpoint of the translocation	on
in cell line GM2324 at 22q12.2. LIF is produced in high amounts by the human endometrium	
and the trophoblast itself, and LIF receptors are present on cytotrophoblast cells. LIF could,	
thus, play a role in modulating HLA-G production and immune tolerance at the maternal-fetal	
interface.	

UniProt:

P09056

Pathways:

JAK-STAT Signaling, Positive Regulation of Peptide Hormone Secretion, Negative Regulation of Hormone Secretion, Stem Cell Maintenance, Growth Factor Binding

Application Details

Application Notes:

Recommended Detection Systems: Enhanced Chemiluminescent Kit with anti-Rabbit IgG (ABIN921124) for Western blot. Application Details: Western blot, 0.1-0.5 μ g/mL

ELISA(Cap), 1-5 μg/mL

Restrictions:

For Research Use only

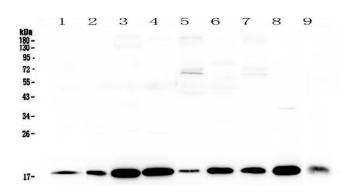
Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg NaN ₃ .
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Product cited in:

Nombela, Requena-Platek, Morales-Lange, Chico, Puente-Marin, Ciordia, Mena, Coll, Perez, Mercado, Ortega-Villaizan: "Rainbow Trout Red Blood Cells Exposed to Viral Hemorrhagic Septicemia Virus Up-Regulate Antigen-Processing Mechanisms and MHC I&II, CD86, and CD83 Antigen-presenting Cell Markers." in: **Cells**, Vol. 8, Issue 5, (2019) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of LIF using anti-LIF antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: rat heart tissue lysates, Lane 3: rat liver tissue lysates, Lane 4: rat kidney tissue lysates, Lane 5: human Hela cell lysates, Lane 6: human placenta tissue lysates, Lane 7: human Jurkat cell lysates, Lane 8: mouse liver tissue lysates. Lane 9: mouse kidney tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-LIF antigen affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for LIF at approximately 18KD. The expected band size for LIF is at 22KD.