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Anti-LIF Antibody Picoband™

Catalog Number: A01400

About Lif

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 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.

Overview

Product Name	Anti-LIF Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-LIF Antibody Picoband™ catalog # A01400. Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na_2HPO_4, 0.05mg NaN_3.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P09056

Technical Details

Immunogen	E. coli-derived mouse LIF recombinant protein (Position: S24-F203).
Predicted Reactive Species	Human
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.

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Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml ELISA (Cap), 1-5ug/ml

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Anti-LIF Antibody Picoband™ (A01400) Images

Figure 1. Western blot analysis of LIF using anti-LIF antibody (A01400).
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 # A01400) at 0.5 ug/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.

4 Publications Citing This Product

1. PubMed ID: 10.1089/cell.2009.0106, Optimization of Culture Conditions to Support Undifferentiated Growth of Human Embryonic Stem Cells

2. PubMed ID: 17392578, Hu Cp, Feng Jt, Tang Yl, Zhu Jq, Lin Mj, Yu Me. Mediators Inflamm. 2006;2006(5):84829. Lif Upregulates Expression Of Nk-1R In Nhbe Cells.

3. PubMed ID: 28678802, miR-182 aids in receptive endometrium development in dairy goats by down-regulating PTN expression

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