BOSTER BIOLOGICAL TECHNOLOGY
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Anti-LIF Antibody Picoband®

Catalog Number: PB9036

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.

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Overview

Product Name	Anti-LIF Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-LIF Antibody Picoband® catalog # PB9036. Tested in IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na2HPO4, and 0.05 mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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	P15018

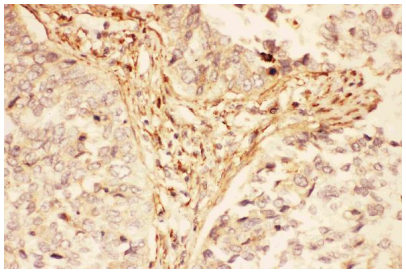
Technical Details

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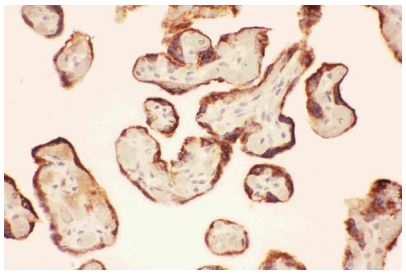
Immunogen	E.coli-derived human LIF recombinant protein (Position: S23-F202). Human LIF shares 78% and 82% amino acid (aa) sequences identity with mouse and rat LIF, respectively.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
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.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human Western blot, 0.1-0.5ug/ml, Human

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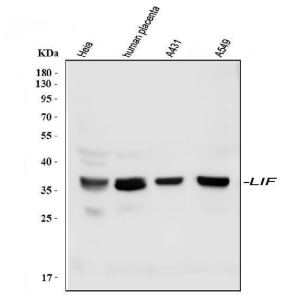
Anti-LIF Antibody Picoband® (PB9036) Images



IHC analysis of LIF using anti-LIF antibody (PB9036). LIF was detected in paraffin-embedded section of human lung cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-LIF Antibody (PB9036) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.



IHC analysis of LIF using anti-LIF antibody (PB9036). LIF was detected in paraffin-embedded section of human placenta tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-LIF Antibody (PB9036) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.



Western blot analysis of LIF using anti-LIF antibody (PB9036). 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 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human placenta tissue lysates, Lane 3: human A431 whole cell lysates, Lane 4: human A549 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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 # PB9036) 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 1:5000 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 36 kDa. The expected band size for LIF is at 22 kDa.

10 Publications Citing This Product

1. PubMed ID: 10.1155/MI/2006/84829, LIF Upregulates Expression of NK-1R in NHBE Cells

2. PubMed ID: 33536035, Zhou L,Li C,Liu X,Zhang T.Effect of Irisin on LIF and integrin alphavbeta3 in rats of implantation failure.Reprod Biol

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Endocrinol.2021 Feb 3;19(1):18.doi:10.1186/s12958-021-00700-9.PMID:33536035;PMCID:PMC7856750.

3. PubMed ID: 23909917, Yu N, Yang J, Guo Y, Fang J, Yin T, Luo J, Li X, Li W, Zhao Q, Zou Y, Xu W. Am J Reprod Immunol. 2014 Jan;71(1):24-33. Doi: 10.1111/Aji.12150. Epub 2013 Aug 1. Intrauterine Administration Of Peripheral Blood Mononuclear Cells (Pbmcs) Improves Endo...

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Anti-LIF Antibody

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