BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Lipocalin 2/LCN2 Antibody Picoband®

Catalog Number: PB9609

About Lcn2

Europhile gelatinase-associated lipocalin (NGAL) is a protein that in humans is encoded by the LCN2 gene. The binding of lipocalin-2 to bacterial siderophores is important in the innate immune response to bacterial infection. Upon encountering invading bacteria the toll-like receptors on immune cells stimulate the synthesis and secretion of lipocalin-2. Secreted lipocalin-2 then limits bacterial growth by sequestering iron-containing siderophores. Lipocalin-2 also functions as a growth factor.

Overview

Product Name	Anti-Lipocalin 2/LCN2 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Lipocalin 2/LCN2 Antibody Picoband® catalog # PB9609. Tested in ELISA, IHC, IHC-F, WB applications. This antibody reacts with Human, Mouse, Rat. 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, IHC-F, WB, ELISA (Cap)
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg 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	P30152

Technical Details

Immunogen	E. coli-derived rat Lipocalin 2 recombinant protein (Position: Q21-N198). Rat Lipocalin 2 shares 64.4 % and 81.1 % amino acid (aa) sequence identity with human and mouse Lipocalin 2, 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) and IHC(F).
Cross Reactivity	No cross-reactivity with other proteins

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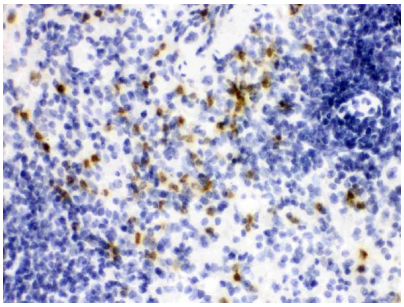
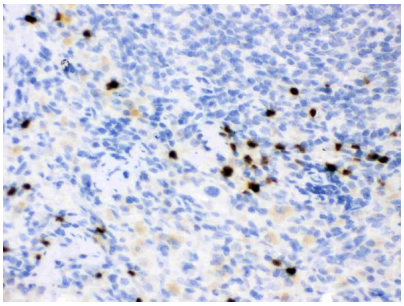
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Mouse Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Mouse, Rat Immunohistochemistry (Frozen Section), 0.5-1ug/ml, Mouse, Rat ELISA (cap) ,1-5ug/ml, Rat

Western blot analysis of Lipocalin 2 using anti-Lipocalin 2 antibody (PB9609). Electrophoresis was per SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane of sample under reducing conditions. Lane 1: Mouse Lung Tissue Lysate, Lane 2: Mouse Intestine Tiss Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit an affinity purified polyclonal antibody (Catalog # PB9609) at 0.5 ug/mL overnight at 4°C, then washed times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilutio hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalo Tanon 5200 system. A specific band was detected for Lipocalin 2 at approximately 22KD. The expecte Lipocalin 2 is at 22KD.



IHC analysis of Lipocalin 2 using anti-Lipocalin 2 antibody (PB9609). Lipocalin 2 was detected in parat of Mouse Spleen Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitop 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated anti-Lipocalin 2 Antibody (PB9609) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as se incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Comple SA1022) with DAB as the chromogen.



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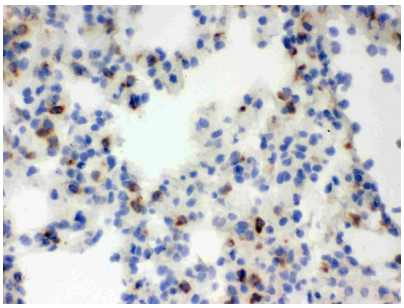

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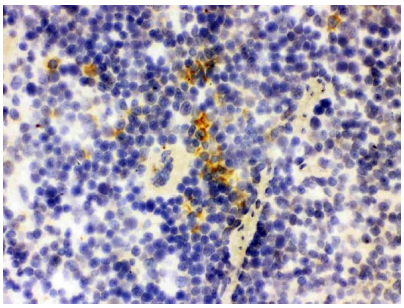

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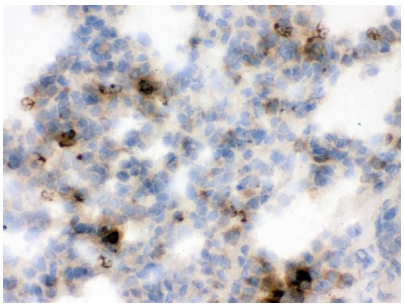
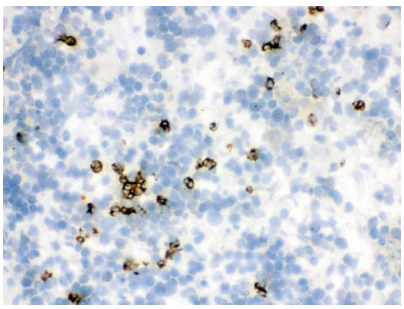
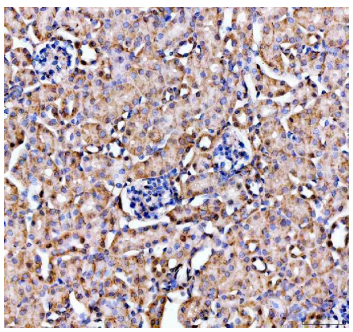


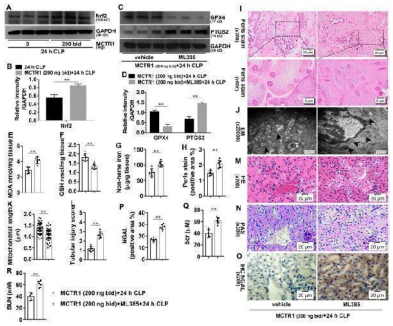
IHC analysis of Lipocalin 2 using anti-Lipocalin 2 antibody (PB9609). Lipocalin 2 was detected in froze tissue. The tissue section was blocked with 10% goat serum. The tissue section was then incubated w Lipocalin 2 Antibody (PB9609) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as second incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Comple SA1022) with DAB as the chromogen.



IHC analysis of Lipocalin 2 using anti-Lipocalin 2 antibody (PB9609). Lipocalin 2 was detected in froze tissue. The tissue section was blocked with 10% goat serum. The tissue section was then incubated w Lipocalin 2 Antibody (PB9609) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as second incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Comple SA1022) with DAB as the chromogen.

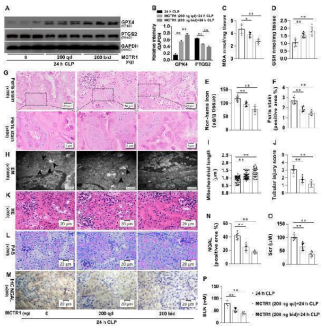


IHC analysis of Lipocalin 2 using anti-Lipocalin 2 antibody (PB9609). Lipocalin 2 was detected in a par section of mouse kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8 solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubate anti-Lipocalin 2 Antibody (PB9609) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjuga Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



Effects of Nrf2 on MCTR1-regulated ferroptosis in CLP-induced AKI. Mice were given ML385 (30 mg/kg 7, ML385 injection with or without a twice-daily administration mode of MCTR1 as described before in experiment. All kidney samples were collected at 24 h after CLP. A–D Shown are representative weste quantification of Nrf2, GPX4, and PTGS2. E – G Quantitative analyses of MDA, GSH, and non-heme iro analyses of Perl's stain. I Representative Perl's stain images. J Representative TEM images. The black ferroptosis-like mitochondria. K Quantitative analyses of mitochondrial length. L Histological analyses M , N Representative HE stains and PAS stain. O Representative IHC images for NGAL. P Quantitative NGAL. Q , R Quantitative analyses of serum Scr and BUN. n = 6 mice/group, mean ± SD were present PubMed under a CC BY license. PMID: 34961563

Effects of MCTR1 on ferroptosis in CLP-induced AKI. Mice were given MCTR1 once, twice, or not during



The once-daily administration mode (qd): Mice were given MCTR1 (200 ng/mice, iv) 0.5 h before bein
twice-daily administration mode (bid): Mice were given MCTR1 (200 ng/mice, iv) 0.5 h before being s
then an additional MCTR1 (200 ng/mice, iv) was given 12 h after CLP. All kidney samples were collect
, B Shown are representative western blotting and quantification of GPX4 and PTGS2. C–E Quantitativ
GSH, and non-heme iron. F Quantitative analyses of Perl's stain. G Representative Perl's stain images
TEM images. The black arrow indicates ferroptosis-like mitochondria. I Quantitative analyses of mitoc
Histological analyses of renal tubular injury. K , L Shown are representative HE stains and PAS stain.
images for NGAL. N Quantitative analyses of IHC stain of NGAL. O , P Quantitative analyses of serum
mice/group, mean ± SD were presented. **P < 0.01 . iv: intravenous Index in PubMed under a CC BY
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6 Publications Citing This Product

1. PubMed ID: 10.1186/s13578-021-00734-x, Maresin conjugates in tissue regeneration-1 suppresses ferroptosis in se

2. PubMed ID: 10.1080/08923973.2017.1418883, Inhibition of plasma kallikrein–kinin system to alleviate renal injury
rats with adjuvant-induced arthritis

3. PubMed ID: -, Chunmei Zhang,Mengying Suo,Lingxin Liu,Yan Qi,Chen Zhang,Lin Xie,Xuehui Zheng,Chang Ma,Jingyua
"Melatonin Alleviates Contrast-Induced Acute Kidney Injury by Activation of Sirt3",Oxidative Medicine and Cellular Lo
6668887,21 pages,2021.https://doi.org/10.1155/2021/6668887

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Anti-Lipocalin 2/LCN2 Antibody

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