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Datasheet for ABIN3043290

anti-Lipocalin 2 antibody (AA 21-200)

7 Images

2 Publications

Overview

Quantity:	100 µg
Target:	Lipocalin 2 (LCN2)
Binding Specificity:	AA 21-200
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Lipocalin 2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Neutrophil gelatinase-associated lipocalin(LCN2) detection. Tested with WB, IHC-P, ELISA in Mouse, Rat.
Immunogen:	E. coli-derived mouse Lipocalin 2 recombinant protein (Position: Q21-N200). Mouse Lipocalin 2 shares 62 % and 81.1 % amino acid (aa) sequence identity with human and rat Lipocalin 2, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Neutrophil gelatinase-associated lipocalin(LCN2) detection. Tested with WB, IHC-P, ELISA in Mouse, Rat. Gene Name: lipocalin 2 Protein Name: Neutrophil gelatinase-associated lipocalin

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: Lipocalin 2 (LCN2)

Alternative Name: LCN2 ([LCN2 Products](#))

Background: 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.

Synonyms: 24p3 antibody|25 kDa alpha 2 microglobulin related subunit of MMP9 antibody|25 kDa alpha-2-microglobulin-related subunit of MMP-9 antibody|Alpha 2 microglobulin related protein antibody|HGNC:6526 antibody|HNL antibody|Lcn 2 antibody|Lcn2 antibody|Lipocalin-2 antibody|Migration stimulating factor inhibitor antibody|MSFI antibody|Neutrophil gelatinase associated lipocalin antibody|Neutrophil gelatinase associated lipocalin precursor antibody|Neutrophil gelatinase-associated lipocalin antibody|NGAL antibody|NGAL_HUMAN antibody|Oncogene 24p3 antibody|Oncogenic lipocalin 24p3 antibody|P25 antibody|Siderocalin antibody|siderocalin LCN2 antibody|SV40 induced 24P3 protein antibody|Uterocalin antibody

Gene ID: 16819

UniProt: [P11672](#)

Pathways: [Cellular Response to Molecule of Bacterial Origin, Transition Metal Ion Homeostasis](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Rat, Predicted Species: Mouse
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
ELISA: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse

Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.

Application Details

Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

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.

Publications

Product cited in: Jia, Ma, Lv, Ma, Xu, Yang, Tian, Wang, Sun, Xu, Fu, Zhao: "Oestrogen and parathyroid hormone alleviate lumbar intervertebral disc degeneration in ovariectomized rats and enhance Wnt/β-catenin pathway activity." in: **Scientific reports**, Vol. 6, pp. 27521, (2018) ([PubMed](#)).

Jia, Jiang, Liu, Wang, Zhu, Zhu, Liu, Zhong, Xie, Huang, Jia, Li, Liu, Zuo, Cheng, Dai, Ren: "Effects of three-dimensional collagen scaffolds on the expression profiles and biological functions of glioma cells." in: **International journal of oncology**, Vol. 52, Issue 6, pp. 1787-1800, (2018) ([PubMed](#)).

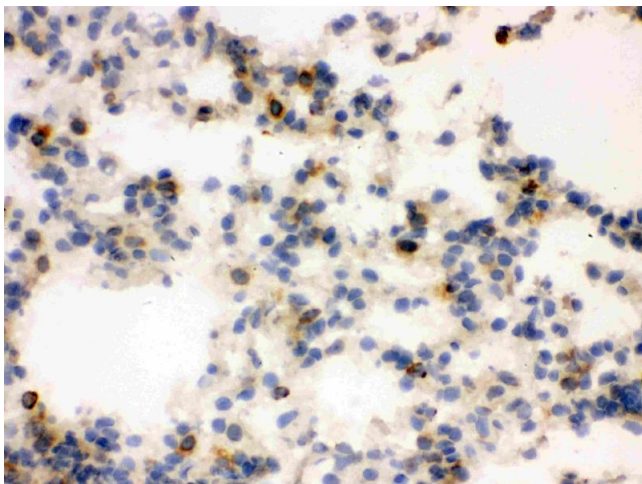
Ding, Teng, Fan, Zhao: "The Association Between Modic Changes of Lumbar Endplates and Spontaneous Absorption of Herniated Intervertebral Discs." in: **Cell biochemistry and**

biophysics, Vol. 71, Issue 3, pp. 1357-63, (2016) ([PubMed](#)).

Yan, Tian, Wang, Cheng, Xu, Song, Zhang, Zhang: "Age dependent changes in cartilage matrix, subchondral bone mass, and estradiol levels in blood serum, in naturally occurring osteoarthritis in Guinea pigs." in: **International journal of molecular sciences**, Vol. 15, Issue 8, pp. 13578-95, (2015) ([PubMed](#)).

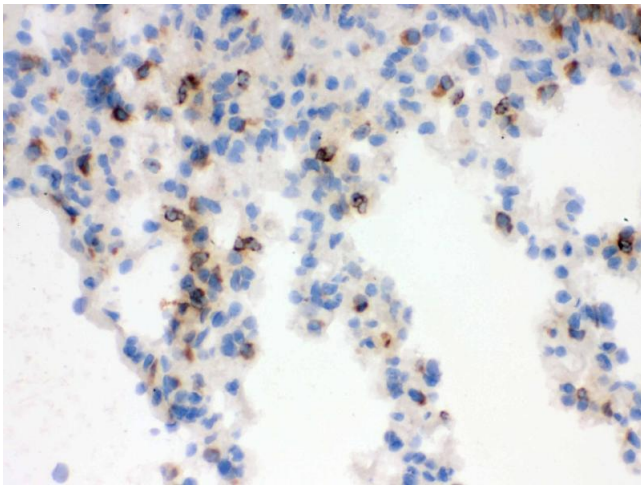
Xu, Zhang, Xu, Guo, Wang, Wu, Wang, Luo, Zhou: "Antiphotaging effect of conditioned medium of dedifferentiated adipocytes on skin in vivo and in vitro: a mechanistic study." in: **Stem cells and development**, Vol. 24, Issue 9, pp. 1096-111, (2015) ([PubMed](#)).

Images



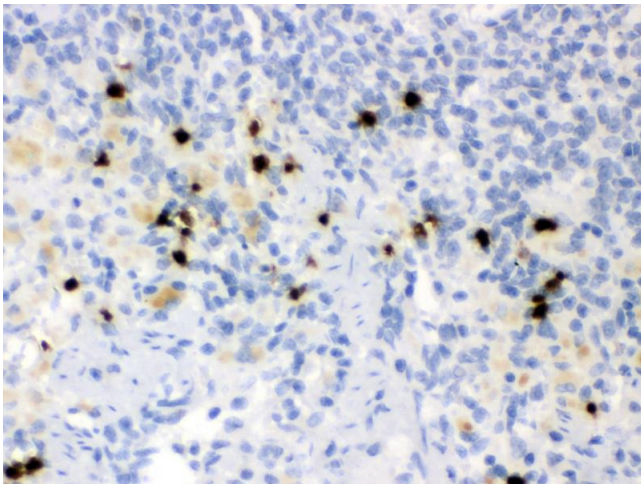
Immunohistochemistry

Image 1. IHC analysis of Lipocalin 2 using anti-Lipocalin 2 antibody . Lipocalin 2 was detected in frozen section of rat lung tissue . 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 1µg/ml rabbit anti-Lipocalin 2 Antibody 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 Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.



Immunohistochemistry

Image 2. IHC analysis of Lipocalin 2 using anti-Lipocalin 2 antibody . Lipocalin 2 was detected in frozen section of mouse lung tissue . 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 1µg/ml rabbit anti-Lipocalin 2 Antibody 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 Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.



Immunohistochemistry

Image 3. Anti- Lipocalin 2 Picoband antibody,IHC(P) IHC(P):
Rat Spleen Tissue

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN3043290.