Datasheet for ABIN3043292

anti-Lipocalin 2 antibody (AA 21-198)

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Overview

Quantity:	100 µg
Target:	Lipocalin 2 (LCN2)
Binding Specificity:	AA 21-198
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Lipocalin 2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-Lipocalin 2/LCN2 Antibody Picoband®
Immunogen:	E. coli-derived < a href="https://www.bosterbio.com/human-lipocalin-2-ngal-picokine-trade-elisa-kit-ek0853-boster.html" style="color:#EA8D28">human Lipocalin 2 recombinant protein (Position: Q21-G198). Human Lipocalin 2 shares 62 % and 64.4 % amino acid (aa) sequence identity with mouse and rat Lipocalin 2, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Lipocalin 2/LCN2 Antibody Picoband® (ABIN3043292). Tested in ELISA, 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

Product Details

	as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	Lipocalin 2 (LCN2)
Alternative Name:	LCN2 (LCN2 Products)
Background:	Synonyms: Neutrophil gelatinase-associated lipocalin,NGAL,25 kDa alpha-2-microglobulin-related subunit of MMP-9,Lipocalin-2,Oncogene 24p3,Siderocalin LCN2,p25,LCN2,HNL, NGAL, Tissue Specificity: Expressed in bone marrow and in tissues that are prone to exposure to microorganism. High expression is found in bone marrow as well as in uterus, prostate, salivary gland, stomach, appendix, colon, trachea and lung. Not found in the small intestine or peripheral blood leukocytes. . 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. Sequence Similarities: Belongs to the calycin superfamily. Lipocalin family.
Molecular Weight:	22 kDa
Gene ID:	3934
UniProt:	P80188
Pathways:	Cellular Response to Molecule of Bacterial Origin, Transition Metal Ion Homeostasis

Application Details

Application Notes:	Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human ELISA, 0.1-0.5 µg/mL, - Western blot, 0.1-0.5 µg/mL, Human 1. Cowland JB, Borregaard N (October 1997). "Molecular characterization and pattern of tissue expression of the gene for neutrophil gelatinase-associated lipocalin from humans". Genomics 45 (1): 17-23. 2. Chan P, Simon-Chazottes D, Mattei MG, Guenet JL, Salier JP (September 1994). "Comparative mapping of lipocalin genes in human and mouse: the four genes for complement

Application Details

	C8 gamma chain, prostaglandin-D-synthase, oncogene-24p3, and progestagen-associated endometrial protein map to HSA9 and MMU2". Genomics 23 (1): 145-50. 3. Flo TH, Smith KD, Sato S, Rodriguez DJ, Holmes MA, Strong RK, Akira S, Aderem A (December 2004). "Lipocalin 2 mediates an innate immune response to bacterial infection by sequestrating iron". Nature 432 (7019): 917-21. 4. Kjeldsen L, Johnsen AH, Sengel111v H, Borregaard N (May 1993). "Isolation and primary structure of NGAL, a novel protein associated with human neutrophil gelatinase". J. Biol. Chem. 268 (14): 10425-32. 5. Nelson AM, Zhao W, Gilliland KL, Zaenglein AL, Liu W, Thiboutot DM (April 2008). 6. Schmidt-Ott KM, Mori K, Li JY, Kalandadze A, Cohen DJ, Devarajan P, Barasch J (February 2007). "Dual action of neutrophil gelatinase-associated lipocalin". J. Am. Soc. Nephrol. 18 (2): 407-13.
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 5 mg BSA, 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:	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.

Publications

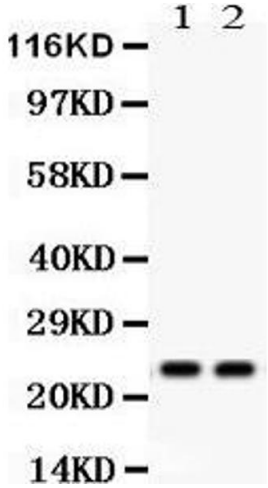
Product cited in:	Narayan, Duan, Jiang, Li, Paka, Yamin, Friedman, Weir, Goldberg: "Late intervention with the small molecule BB3 mitigates postischemic kidney injury." in: **American journal of physiology.**

Publications

Renal physiology, Vol. 311, Issue 2, pp. F352-61, (2017) (PubMed).

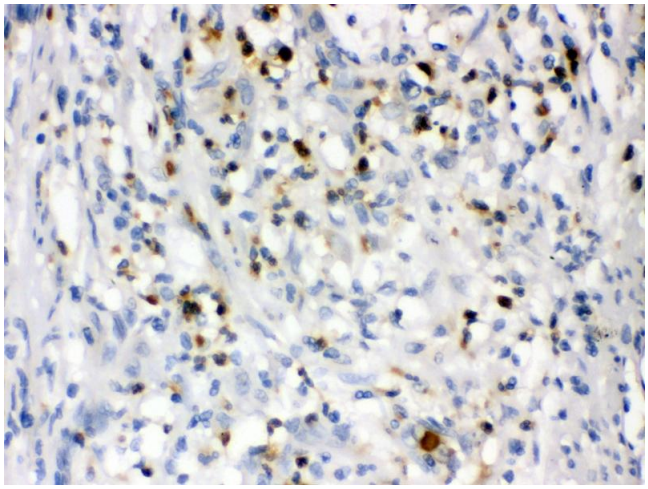
Li, Wang, He, Chen, Yu: "Expression of neutrophil gelatinase-associated lipocalin in low osmolar contrast-induced nephropathy in rats and the effect of N-acetylcysteine." in: **Experimental and therapeutic medicine**, Vol. 12, Issue 5, pp. 3175-3180, (2016) (PubMed).

Images



Western Blotting

Image 1. Observed bind size: 22KD



Immunohistochemistry

Image 2. Anti- Lipocalin 2 Picoband antibody, IHC(P) IHC(P): Human Intestinal Cancer Tissue