

Purified anti-NGAL (Lipocalin-2) Antibody

Catalog# / Size	661502 / 500 µg
Clone	M0410B2
Regulatory Status	RUO
Other Names	Lipocalin 2, Oncogene 24p3, Neutrophil Gelatinase-Associated Lipocalin, Siderocalin LCN2, 25 kD Alpha-2-Microglobulin-Related Subunit Of MMP-9, p25, MSFI, Migration-Stimulating Factor Inhibitor, HNL
Isotype	Rat IgG2a, κ
Description	NGAL (lipocalin-2) is a lipocalin family protein that plays important roles in innate immunity, inflammation, and atherosclerosis. Mouse NGAL is detected in lung, spleen, uterus, vagina, and epididymis. It is a critical component of innate immunity because of its ability to bind iron-siderophore complexes and limit bacterial growth. It is also produced by injured epithelia and is one of the most promising new markers for renal epithelial injury and cardiovascular disease (CVD).

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Recombinant mouse NGAL
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	WB - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by Western blotting . For Western blotting, the suggested use of this reagent is 0.125 - 1.0 µg per ml. It is recommended that the reagent be titrated for optimal performance for each application.
RRID	AB_2563987 (BioLegend Cat. No. 661502)

Antigen Details

Structure	195 amino acid monomer with a predicted molecular weight of approximately 23 kD.
Distribution	Secreted by epithelial cells, macrophages, neutrophils; increased levels have been observed in plasma, serum, and urine in various conditions, such as metastatic breast and colorectal cancer, acute kidney injury, pancreatitis and preeclampsia.
Function	Apoptosis, innate immunity, renal development.
Interaction	Disulfide-linked with MMP9.
Ligand/Receptor	SLC22A17 (24p3R).
Cell Type	Epithelial cells, Macrophages, Neutrophils
Biology Area	Apoptosis/Tumor Suppressors/Cell Death, Cell Biology, Immunology, Innate Immunity, Signal Transduction

Antigen References

1. Iqbal N, et al. 2013. *Expert Opin. Med Diagn.* 7:209.
2. Singer E, et al. 2013. *Acta. Physiol. (Oxf)* 207:663.
3. Palazzuoli A, et al. 2012. *Clin. Chim. Acta.* 413:1832.
4. Flo TH, et al. 2004. *Nature* 432:917.
5. Goetz DH, et al. 2002. *Mol. Cell.* 10:1033.
6. Leung L, et al. 2012. *PLoS One* 7:e46677.
7. Kjeldsen L, et al. 1993. *J. Biol. Chem.* 268:10425.

Gene ID

[3934](#)

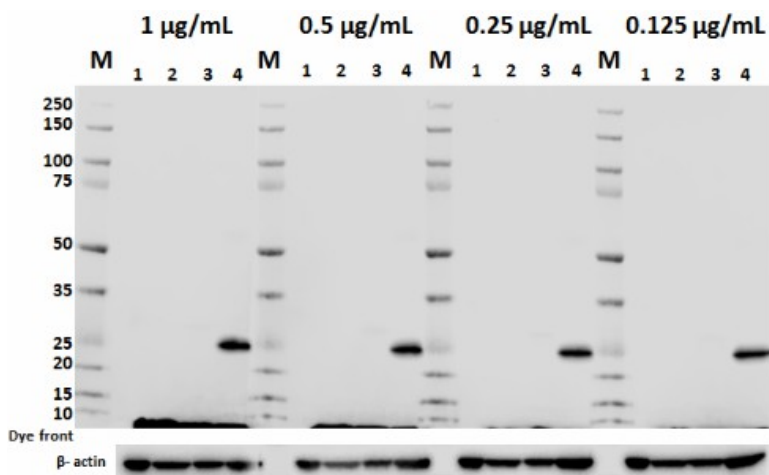
Related Protocols

[Western Blotting Protocol](#)

Other Formats

Purified anti-NGAL (Lipocalin-2)

Product Data



Cell lysate from A431 human cell line (lane 1), NIH3T3 mouse cell line (lane 2), mouse pancreas (lane 3) and mouse bone marrow (lane 4) (15 μg protein for each) were resolved by 4-12% Bis-Tris gel electrophoresis, transferred to nitrocellulose, and probed with 0.125 - 1 μg/mL of Purified anti-NGAL (Lipocalin-2) Antibody (clone M0410B2) (upper). Proteins were visualized using chemiluminescence detection after incubation with a 1:3000 dilution of HRP conjugated anti-rat-IgG secondary antibody for the anti-NGAL (upper panel) antibody or a 1:5000 dilution of Direct-Blot™ HRP anti-β-Actin (clone 2F1-1, lower panel). Lane M: Molecular weight ladder.

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587