

Mouse anti-Human Lipocalin-2/LCN2 Monoclonal Antibody | anti-LCN2 antibody

Anti-Lipocalin-2/LCN2 Antibody, Mouse Monoclonal

CATALOG # AAA254725	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA
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PRODUCT SYNONYMS

Lipocalin-2/LCN2; Monoclonal Antibody; Anti-Lipocalin-2/LCN2 Antibody; Mouse Monoclonal; LCN2/NGAL Antibody; Mouse MAb; lipocalin 2; Anti-24p3 Antibody; Anti-Lipocalin-2 Antibody; Anti-MSFI Antibody; Anti-NGAL Antibody; Anti-p25 Antibody; anti-LCN2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	04
Specificity	Human LCN2/NGAL. No cross-reactivity in ELISA with Human MMP9, Human cell lysate (293 cell line)
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-LCN2 antibody	IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant Human LCN2/NGAL protein
Conjugation	Unconjugated
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human LCN2/NGAL (rh LCN2/NGAL). The IgG fraction of the cell culture supernatant was purified by Protein A affinity.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunochemical staining of human LCN2 in human appendix with mouse monoclonal antibody (1:100, formalin-fixed paraffin embedded sections).



IHC (Immunohistochemistry)

Immunochemical staining of human LCN2 in human spleen with mouse monoclonal antibody (1:100, formalin-fixed paraffin embedded sections).



IHC (Immunohistochemistry)
Immunochemical staining of human LCN2 in human trachea with mouse monoclonal antibody (1:100, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-LCN2 antibody	Lipocalin-2 (LCN2), also known as neutrophil gelatinase-associated lipocalin (NGAL), is a 25 kDa protein belonging to the lipocalin superfamily. It was initially found in activated neutrophils, however, many other cells, like kidney tubular cells, may produce NGAL in response to various insults. This protein is released from injured tubular cells after various damaging stimuli, is already known by nephrologists as one of the most promising biomarkers of incoming Acute Kidney Injury (AKI). Recent evidence also suggests its role as a biomarker in a variety of other renal and non-renal conditions. Moreover, recent studies seem to suggest a potential involvement of this factor also in the genesis and progression of chronic kidney diseases. NGAL is the first known mammalian protein that specifically binds organic molecules called siderophores, which are high-affinity iron chelators. NGAL, first known as an antibacterial factor of natural immunity, and an acute-phase protein, is currently one of the most interesting and enigmatic proteins involved in the process of tumor development. acting as an intracellular iron carrier and protecting MMP9 from proteolytic degradation, NGAL has a clear pro-tumoral effect, as has already been observed in different tumors (e.g. breast, stomach, esophagus, brain) in humans. In thyroid carcinomas, NGAL is strongly induced by NF-κB, an important factor involved both in tumor growth and in the link between chronic inflammation and neoplastic development. Thus, Lipocalin-2 (LCN2/NGAL) has been implicated in a variety of processes including cell differentiation, proliferation, survival, and morphogenesis.
References	Schmidt-Ott KM, et al. (2006) Neutrophil gelatinase-associated lipocalin-mediated iron traffic in kidney epithelia. Curr Opin Nephrol Hypertens. 15(4): 442-9.Bolignano D, et al. (2010) Neutrophil gelatinase-associated lipocalin (NGAL) in human neoplasias: a new protein enters the scene. Cancer Lett. 288(1): 10-6.Soni SS, et al. (2010) NGAL: a biomarker of acute kidney injury and other systemic conditions. Int Urol Nephrol. 42(1): 141-50.Bolignano D, et al. (2010) From kidney to cardiovascular diseases: NGAL as a biomarker beyond the confines of nephrology. Eur J Clin Invest. 40(3): 273-6.

NCBI AND UNIPROT INFORMATION

NCBI GI #	38455402
NCBI GeneID	3934
NCBI Accession #	NP_005555.2
NCBI GenBank Nucleotide #	NM_005564.3
UniProt Accession #	P80188; P30150; Q5SYV9; Q5SYW0; Q6FGL5; Q92683; A6NII8; B4DWV4; B7ZAA2
Molecular Weight	22,588 Da
NCBI Official Full Name	neutrophil gelatinase-associated lipocalin
NCBI Official Synonym Full Names	lipocalin 2
NCBI Official Symbol	LCN2
NCBI Official Synonym Symbols	24p3; MSFI; NGAL
NCBI Protein Information	neutrophil gelatinase-associated lipocalin; p25; lipocalin-2; oncogene 24p3; siderocalin LCN2; migration-stimulating factor inhibitor; 25 kDa alpha-2-microglobulin-related subunit of MMP-9
UniProt Protein Name	Neutrophil gelatinase-associated lipocalin
UniProt Gene Name	LCN2
UniProt Synonym Gene Names	HNL; NGAL; NGAL
UniProt Entry Name	NGAL_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/lipocalin-2-lcn2-antibody-clone-04-immunohistochemistry-elisa/254725>