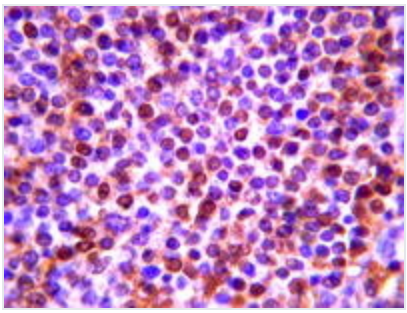
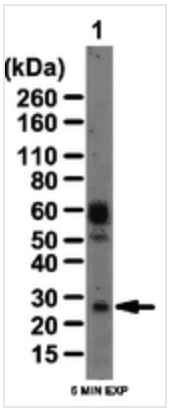
Lipocalin 2 (LCN2) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Lipocalin 2 (Lcn2), Polyclonal Antibody
Full Product Name	Lipocalin 2, NT (Lipocalin-2, Lcn2, 24p3, 25kD alpha-2-microglobulin-related Subunit of MMP-9, HNL, MSFI, Neutrophil Gelatinase-associated Lipocalin, NGAL, Oncogene 24p3, p25) (Biotin)
Product Gene Name	anti-Lcn2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by affinity chromatography.
Specificity	Recognizes human LCN2.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	22.8kDa (199aa), confirmed by MALDI-TOF
OMIM	600181
3D Structure	ModBase 3D Structure for P80188
Immunogen	Linear peptide corresponding to the mature chain of human LCN2 (KLH). Species sequence homology: mouse, bovine and rat.
Conjugate	Biotin
Positive Control	Human kidney tissue lysate
Note	Preservative Free
Product Categories/Family for anti-Lcn2 antibody	Antibodies; Transport Proteins
Applications Tested/Suitable for anti-Lcn2 antibody	Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-Lcn2 antibody	IHC: 1:200 WB: 5ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-Lcn2 antibody	MBS6485182 is an antibody targeting Lcn2. Also known as Lipocalin 2, NT (Lipocalin-2, Lcn2, 24p3, 25kD alpha-2-microglobulin-related Subunit of MMP-9, HNL, MSFI, Neutrophil Gelatinase-associated Lipocalin, NGAL, Oncogene 24p3, p25) (Biotin). Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-Lcn2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunohistochemistry (IHC) of anti-Lcn2 antibody
Immunohistochemistry Analysis: Representative lot data. Paraffin-embedded human speen tissue was prepared using heat-induced epitope retrieval in citrate buffer, pH 6.0. Immunostaining was performed using a 1:200 dilution of Anti-LCN2. Reactivity was detected using the IHC-Select Detection Kit.



Western Blot (WB) of anti-Lcn2 antibody
Western Blotting Analysis: Representative lot data. Human kidney tissue lysate was resolved by electrophoresis, transferred to PVDF membranes and probed with Anti-LCN2 (5ug/ml). Proteins were visualized using a Donkey Anti-Rabbit IgG conjugated to HRP and a chemiluminescence detection system. Arrow indicates LCN2 (~25 kDa). Note: Heavy load of lysate at high concentration was used to observe the band of interest.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Lcn2. It may not necessarily be applicable to this product.

NCBI GI #	38455402
NCBI GeneID	3934
NCBI Accession #	NP_005555
UniProt Primary Accession #	P80188
UniProt Secondary Accession #	P30150; Q5SYV9; Q5SYW0; Q6FGL5; Q92683; A6NII8; B4DWV4; B7ZAA2
UniProt Related Accession #	P80188
GenBank Nucleotide #	NM_005564.4
NCBI Official Full Name	neutrophil gelatinase-associated lipocalin
NCBI Official Synonym Full Names	lipocalin 2
NCBI Official Symbol	LCN2
NCBI Official Synonym Symbols	p25; 24p3; MSFI; NGAL
UniProt Protein Name	Neutrophil gelatinase-associated lipocalin
UniProt Synonym Protein Names	25 kDa alpha-2-microglobulin-related subunit of MMP-9; Lipocalin-2; Oncogene 24p3; Siderocalin LCN2; p25
Protein Family	Neutrophil gelatinase-associated lipocalin
UniProt Gene Name	LCN2
UniProt Synonym Gene Names	HNL; NGAL; NGAL
UniProt Entry Name	NGAL_HUMAN
NCBI Protein Information	neutrophil gelatinase-associated lipocalin
NCBI Summary for Lcn2	This gene encodes a protein that belongs to the lipocalin family. Members of this family transport small hydrophobic molecules such as lipids, steroid hormones and retinoids. The protein encoded by this gene is a neutrophil gelatinase-associated lipocalin and plays a role in innate immunity by limiting bacterial growth as a result of sequestering iron-containing siderophores. The presence of this protein in blood and urine is an early biomarker of acute kidney injury. This protein is thought to be be involved in multiple cellular processes, including maintenance of skin homeostasis, and suppression of invasiveness and metastasis. Mice lacking this gene are more susceptible to bacterial infection than wild type mice. [provided by RefSeq, Sep 2015]

UniProt Comments for Lcn2	LCN2: Iron-trafficking protein involved in multiple processes such as apoptosis, innate immunity and renal development. Binds iron through association with 2,5-dihydroxybenzoic acid (2,5- DHBA), a siderophore that shares structural similarities with bacterial enterobactin, and delivers or removes iron from the cell, depending on the context. Iron-bound form (holo-24p3) is internalized following binding to the SLC22A17 (24p3R) receptor, leading to release of iron and subsequent increase of intracellular iron concentration. In contrast, association of the iron-free form (apo-24p3) with the SLC22A17 (24p3R) receptor is followed by association with an intracellular siderophore, iron chelation and iron transfer to the extracellular medium, thereby reducing intracellular iron concentration. Involved in apoptosis due to interleukin-3 (IL3) deprivation: iron-loaded form increases intracellular iron concentration without promoting apoptosis, while iron-free form decreases intracellular iron levels, inducing expression of the proapoptotic protein BCL2L11/BIM, resulting in apoptosis. Involved in innate immunity, possibly by sequestrating iron, leading to limit bacterial growth. Belongs to the calycin superfamily. Lipocalin family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 9q34 Cellular Component: extracellular space; extracellular region; cytosol Molecular Function: protein homodimerization activity; protease binding; transporter activity; iron ion binding Biological Process: response to drug; cellular response to nutrient levels; cellular iron ion homeostasis; response to virus; positive regulation of cell projection organization and biogenesis; siderophore transport; innate immune response; ion transport; response to herbicide; transmembrane transport
Research Articles on Lcn2	**1.** Lipocalin 2 could facilitate proliferation of castration-resistant prostate cancer cells by activating androgen receptor transcriptional activity.
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