Lipocalin 2 / NGAL Immunizing Blocking Peptide

PRODUCT OVERVIEW

Product Name	Lipocalin 2 / NGAL (Lcn2), Blocking Peptide
Full Product Name	Lipocalin 2 / NGAL Immunizing Peptide
Product Gene Name	Lcn2 blocking peptide
Product Synonym Gene Name	NGAL
Product Synonym Names	Lcn2; lipocalin 2; NGAL; RP23-161B9.11; 24p3; AW212229; NGAL; Lipocalin 2; Lipocalin 2 / NGAL (mouse)
Sequence	C-HRYPQVQS YNVQ
Form/Format	100ug of Lyophilized peptide formulation 5pmol/ uL in 5% (v/v) acetonitrile /H2O. Reconstitute pellet in distilled water where required. For blocking studies, reconstitute pellet in 200 uL distilled water to obtain a 0.5 mg/mL petide solution.
Preparation and Storage	Shipped at ambient temperature, store at -20°C
Antibody/Peptide Pairs	Lipocalin 2 / NGAL peptide (MBS425510) is used for blocking the activity of Lipocalin 2/NGAL antibody (MBS420046)
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Related Product Information for Lcn2 blocking peptide	The peptide was used in the production of MBS425510 Goat Anti-Lipocalin 2/ngal (mouse) antibody. It is currently untested in blocking applications.
Other Notes	Small volumes of Lcn2 blocking peptide 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.
Searchable Terms for Lcn2 purchase	MBS425510 is a blocking peptide targeting Lcn2. Also known as Lipocalin 2 / NGAL Immunizing Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	34328049
NCBI GeneID	16819
NCBI Accession #	NP_032517.1
UniProt Secondary Accession #	Q3UE34
UniProt Related Accession #	P11672
GenBank Nucleotide #	NM_008491.1
NCBI Official Full Name	neutrophil gelatinase-associated lipocalin
NCBI Official Synonym Full Names	lipocalin 2
NCBI Official Symbol	Lcn2
NCBI Official Synonym Symbols	24p3; Sip24; AW212229
UniProt Protein Name	Neutrophil gelatinase-associated lipocalin
UniProt Synonym Protein Names	Lipocalin-2; SV-40-induced 24P3 protein; Siderocalin LCN2; p25

Protein Family	Neutrophil gelatinase-associated lipocalin
UniProt Gene Name	Lcn2
UniProt Synonym Gene Names	NGAL
UniProt Entry Name	NGAL_MOUSE
NCBI Protein Information	neutrophil gelatinase-associated lipocalin
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, signal peptide; Secreted Cellular Component: cytosol; extracellular region; extracellular space Molecular Function: iron ion binding; protease binding; protein binding; protein homodimerization activity; transporter activity Biological Process: apoptosis; immune system process; innate immune response; ion transport; iron ion homeostasis; positive regulation of cell projection organization and biogenesis; response to drug; response to herbicide; response to virus; siderophore transport; transport
Research Articles on Lcn2	**1.** Our observations suggest that Lcn2 promotes host resistance to Salmonella Typhimurium infection
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