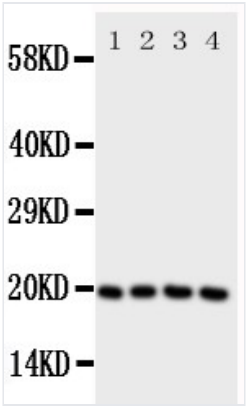
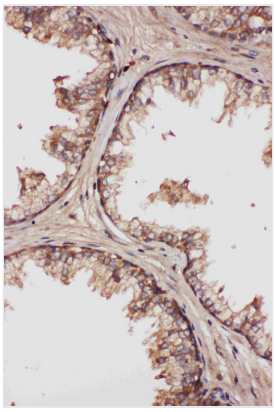
LCN1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	LCN1, Polyclonal Antibody
Full Product Name	Anti-LCN1 antibody
Product Gene Name	anti-LCN1 antibody
Product Synonym Names	Lipocalin-1; lipocalin 1; LCN1 antibody; LCN1_HUMAN antibody; Lipocalin 1(protein migrating faster than albumin, tear prealbumin) antibody; Lipocalin 1 like 2 antibody; Lipocalin-1 antibody; PMFA antibody; Tear lipocalin antibody; Tear prealbumin antibody; Tlc antibody; TP antibody; VEG protein antibody; VEGP antibody; Von Ebner gland protein antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Lyophilized
Purity/Purification	Immunogen affinity purified.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.
Molecular Weight	19,250 Da
OMIM	151675
3D Structure	ModBase 3D Structure for P31025
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human LCN1 (110-124aa HVKDHYIFYCEGELH).
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-LCN1 antibody	Western Blot (WB), Immunohistochemistry (IHC) Paraffin
Related Product Information for anti-LCN1 antibody	**Description:** Rabbit IgG polyclonal antibody for Lipocalin-1(LCN1) detection. Tested with WB, IHC-P in Human. **Background:** Lipocalin-1(LCN1), also known as PREALBUMIN, TEAR or VEGP, is a protein that in humans is encoded by the LCN1 gene. Lipocalin-1 is a member of the lipocalin family of small secretory proteins, which is mapped on 9q34.3. Lipocalin-1 is the primary lipid binding protein in tears and is overproduced in response to multiple stimuli including infection and stress. It may be a marker for chromosome aneuploidy as well as an autoantigen in Sjogren's syndrome. LCN1 inhibits the cysteine-protease papain in vitro, similar to cystatins. And LCN1 plays a role in the nonimmunologic defense and in the control of inflammatory processes in oral and ocular tissues. The investigations presented the first clear evidence that LCN1 is induced in infection or inflammation and supported the idea that this lipocalin functions as a physiologic protection factor of epithelia in vivo.
Other Notes	Small volumes of anti-LCN1 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.
Searchable Terms for LCN1 purchase	MBS175596 is an antibody targeting LCN1. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-LCN1 antibody
Anti-LCN1 antibody, MBS175596, Western blottingAll lanes: Anti LCN1 (MBS175596) at 0.5ug/mlLane 1: JURKAT Whole Cell Lysate at 40ugLane 2: COLO320 Whole Cell Lysate at 40ugLane 3: SCG Whole Cell Lysate at 40ugLane 4: HELA Whole Cell Lysate at 40ugPredicted bind size: 19KDObserved bind size: 19KD



Immunohistochemistry (IHC) of anti-LCN1 antibody
Anti-LCN1 antibody, MBS175596,IHC(P)IHC(P): Human Prostatic Cancer Tissue

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LCN1. It may not necessarily be applicable to this product.

NCBI GI #	401346
NCBI GeneID	3933
NCBI Accession #	P31025.1
UniProt Primary Accession #	P31025
UniProt Secondary Accession #	Q5T8A1
UniProt Related Accession #	P31025
NCBI Official Full Name	Lipocalin-1
NCBI Official Synonym Full Names	lipocalin 1
NCBI Official Symbol	LCN1
NCBI Official Synonym Symbols	TP; TLC; PMFA; VEGP
UniProt Protein Name	Lipocalin-1
UniProt Synonym Protein Names	Tear lipocalin; Tlc; Tear prealbumin; TP; Von Ebner gland protein; VEG protein
Protein Family	Lipocalin
UniProt Gene Name	LCN1
UniProt Synonym Gene Names	VEGP; Tlc; TP; VEG protein
UniProt Entry Name	LCN1_HUMAN
NCBI Protein Information	lipocalin-1; VEG protein; tear prealbumin; Von Ebner gland protein; lipocalin 1 (tear prealbumin); protein migrating faster than albumin
NCBI Summary for LCN1	This gene encodes a member of the lipocalin family of small secretory proteins. Lipocalins are extracellular transport proteins that bind to a variety of hydrophobic ligands. The encoded protein is the primary lipid binding protein in tears and is overproduced in response to multiple stimuli including infection and stress. The encoded protein may be a marker for chromosome aneuploidy as well as an autoantigen in Sjogren's syndrome. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and two pseudogenes of this gene are also located on the long arm of chromosome 9. [provided by RefSeq, Nov 2011]

UniProt Comments for LCN1	LCN1: Could play a role in taste reception. Could be necessary for the concentration and delivery of sapid molecules in the gustatory system. Can bind various ligands, with chemical structures ranging from lipids and retinoids to the macrocyclic antibiotic rifampicin and even to microbial siderophores. Exhibits an extremely wide ligand pocket. Belongs to the calycin superfamily. Lipocalin family. Protein type: Inhibitor; Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 9q34 Cellular Component: extracellular space; extracellular region Molecular Function: cysteine protease inhibitor activity Biological Process: long-chain fatty acid transport; retinal homeostasis; sensory perception of taste; response to stimulus; proteolysis; transmembrane transport
Research Articles on LCN1	**1.** Tear lipocalin (TLC) is a major protein in tears and has a large ligand-binding cavity that allows the lipocalin to bind an extensive and diverse set of lipophilic molecules.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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