

Mouse Anti-Human Lipocalin-1 Monoclonal Antibody

Cat. No. CAB11576MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse Monoclonal Antibody to Human Layilin
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Species	Human
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Source	Mouse
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Antigen Description

Lipocalin-1, also known as Von Ebner gland protein, VEG protein, Tear prealbumin, VEGP, Tear lipocalin and LCN1, is a secreted protein which belongs to the calycin superfamily and Lipocalin family. Human Lipocalin-1 / VEGP was originally described as a major protein of human tear fluid, which was thought to be tear specific. Lipocalin-1 / VEGP is identical with lingual von Ebners gland protein, and is also produced in prostate, nasal mucosa and tracheal mucosa. Homologous proteins have been found in rat, pig and probably dog and horse. Lipocalin-1 / VEGP is an unusual lipocalin member, because of its high promiscuity for relative insoluble lipids and binding characteristics that differ from other members. Lipocalin-1 / VEGP acts as the principal lipid binding protein in tear fluid, a more general physiological function has to be proposed due to its wide distribution and properties. Lipocalin-1 / VEGP would be ideally suited for scavenging of lipophilic, potentially harmful substances and thus might act as a general protection factor of epithelia. Lipocalin-1 / LCN1 could play a role in taste reception. It could be necessary for the concentration and delivery of sapid molecules in the gustatory system. Lipocalin-1 / LCN1 can bind various ligands, with chemical structures ranging from lipids and retinoids to the macrocyclic antibiotic rifampicin and even to microbial siderophores. It exhibits an extremely wide ligand pocket.

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Specificity	Human LCN1 / Lipocalin 1. No cross-reactivity in ELISA with Human LCN2, Human cell lysate (293 cell line)
Immunogen	Recombinant Human LCN1 / Lipocalin 1 Protein
Isotype	Mouse IgG1
Cross Reactivity	7H4H6
Clone	8I5I7
Applications	WB; ELISA
Dilution	Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Human LCN1 in WB. Using a DAB detection system, the detection limit for Human LCN1 is approximately 20 ng/lane under non-reducing conditions and reducing conditions. Direct ELISA: This antibody can be used at 0.5-1 µg with the appropriate secondary reagents to detect Human LCN1. The detection limit for Human LCN1 is approximately 0.031 ng/well.
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, human cell-derived, recombinant Human LCN1 / Lipocalin 1 (rh LCN1 / Lipocalin 1; NP_002288.1; Met 1 - Asp176). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when

stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	LCN1 lipocalin 1 [Homo sapiens]
Official Symbol	LCN1
Synonyms	LCN1; lipocalin 1; lipocalin 1 (protein migrating faster than albumin, tear prealbumin), lipocalin 1 (tear prealbumin); lipocalin-1; lipocalin 1 like 2; MGC71975; PMFA; tear lipocalin; tear prealbumin; TLC; TP; VEGP; Von Ebner gland protein; VEG protein; lipocalin 1 (tear prealbumin); protein migrating faster than albumin;
Gene ID	3933
mRNA Refseq	NM_001252618
Protein Refseq	NP_001239547
MIM	151675
UniProt ID	P31025
Chromosome Location	9q34
Function	binding; cysteine-type endopeptidase inhibitor activity; transporter activity;

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