

Mouse Lipocalin-2/NGAL ELISA Kit | LCN2 elisa kit

Mouse Lipocalin-2/NGAL PicoKine ELISA Kit

CATALOG #
AAA45361

REACTIVITY
Mouse

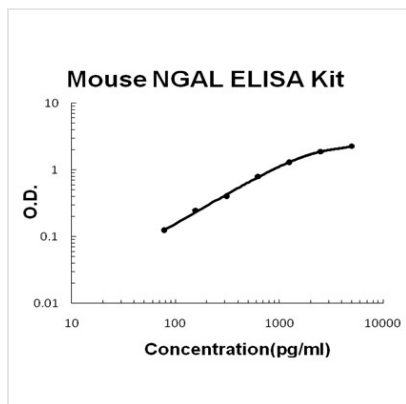
PRODUCT SYNONYMS

Lipocalin-2/NGAL; Mouse Lipocalin-2/NGAL PicoKine ELISA Kit; Neutrophil gelatinase-associated lipocalin; lipocalin 2; 24p3; 25 kDa alpha-2-microglobulin-related subunit of MMP-9; HNL; Lcn2; Lipocalin 2; Lipocalin-2; Migration stimulating factor inhibitor; MSFI; NGAL; NGAL_HUMAN; Oncogene 24p3; p25; Siderocalin; LCN2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant mouse NGAL
Sequence Length	200
Samples	Cell culture supernates, serum, plasma (heparin) and urine
Assay Type	Sandwich
Detection Range	78pg/ml-5,000pg/ml
Sensitivity	< 10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Mouse Lipocalin-2/NGAL PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for LCN2 elisa kit

Principle of the assay: mouse NGAL ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for NGAL has been precoated onto 96-well plates. Standards(NSO, Q21-N200) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for NGAL is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the mouse NGAL amount of sample captured in plate.

Background: Lipocalin-2 (LCN2), also known as NGAL, is a protein associated with neutrophil gelatinase.¹ The LCN2 gene is located at 9q34 and contains 7 exons.² The 25-kD LCN2 protein is believed to bind small lipophilic substances such as bacteria-derived lipopolysaccharide (LPS) and formylpeptides and may function as a modulator of inflammation. NGAL tightly binds bacterial catecholate-type ferric siderophores through a cyclically permuted, hybrid electrostatic/cation- π interaction and is a potent bacteriostatic agent in iron-limiting conditions.³ The primary LCN2 transcript is 3,696 nucleotides long, and the processed transcript is 809 nucleotides long.⁴ LCN2 expression in adult bone marrow, uterus, prostate, salivary gland, stomach, appendix, colon, trachea, and lung, and in fetal spleen and lung. The standard product used in this kit is recombinant mouse NGAL, consisting of 179 amino acids with the molecular mass of 22kDa.

NCBI AND UNIPROT INFORMATION

NCBI GI #	112725
NCBI GeneID	16819
UniProt Accession #	P11672; Q3UE34
Molecular Weight	22,875 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; Sip24; AW212229
NCBI Protein Information	neutrophil gelatinase-associated lipocalin; p25; lipocalin-2; siderocalin LCN2; SV-40-induced 24P3 protein; secreted inducible protein 24
UniProt Protein Name	Neutrophil gelatinase-associated lipocalin
UniProt Gene Name	Lcn2
UniProt Synonym Gene Names	NGAL
UniProt Entry Name	NGAL_MOUSE

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/lcn2-mouse-elisa-kits/lipocalin-2-ngal/45361>