

Rat Lipocalin-2/NGAL ELISA Kit | Lcn2 elisa kit

Rat Lipocalin-2/NGAL Quick ELISA Kit

CATALOG #
AAA125879

REACTIVITY
Rat

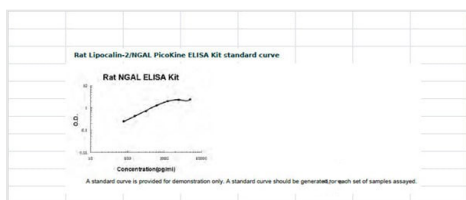
PRODUCT SYNONYMS

Lipocalin-2/NGAL; Rat Lipocalin-2/NGAL Quick ELISA Kit; Lipocalin-2/NGAL|24p3; 25 kDa alpha-2-microglobulin-related subunit of MMP-9; HNL; LCN2; lipocalin 2 (oncogene 24p3); lipocalin 2; Lipocalin2; Lipocalin-2; migration-stimulating factor inhibitor; MSFI; neutrophil gelatinase-associated lipocalin; NGAL; NGALlipocalin-2; Oncogene 24p3; p25; Siderocalin; Uterocalin; Lcn2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant Rat Lcn2
Samples	Cell culture supernatants, serum, plasma (heparin) and urine
Assay Type	Sandwich
Detection Range	78 pg/ml - 5,000 pg/ml
Sensitivity	<10 pg/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 across 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)

ADDITIONAL INFORMATION

Related Product Information for Lcn2 elisa kit	Principle of the Assay: The Quick Picokine™ Rat Lcn2 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Rat Lcn2 in cell culture supernatants, serum, plasma (heparin) and urine. It uses our proprietary Quick ELISA technology. Quick ELISA technology employs capture antibodies conjugated to an affinity tag that is recognized by the polyclonal antibody used to coat our Quick ELISA plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. The kit contains recombinant Rat Lcn2 with immunogen: Expression system for standard: NS0; Immunogen sequence: Q21-N198. To measure Rat Lcn2, add standards and samples to the wells, then add antibody cocktail. Wash the wells with PBS or TBS buffer, and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product is linearly proportional to Rat Lcn2 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Rat Lcn2 in the sample. Background/Introduction: 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 rat NGAL, consisting of 177 amino acids with the molecular mass of 21kDa.
Product Categories/Family for Lcn2 elisa kit	ELISA kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	18543345
NCBI GeneID	170496
NCBI Accession #	NP_570097.1
NCBI GenBank Nucleotide #	NM_130741.1
UniProt Accession #	P30152; Q5HZF1
Molecular Weight	22,476 Da
NCBI Official Full Name	neutrophil gelatinase-associated lipocalin
NCBI Official Synonym Full Names	lipocalin 2
NCBI Official Symbol	Lcn2
NCBI Official Synonym Symbols	Sip24
NCBI Protein Information	neutrophil gelatinase-associated lipocalin; p25; NGAL; lipocalin-2; siderocalin LCN2; lipocalin 2 (oncogene 24p3); alpha-2U globulin-related protein; alpha-2-microglobulin-related protein
UniProt Protein Name	Neutrophil gelatinase-associated lipocalin
UniProt Gene Name	Lcn2
UniProt Synonym Gene Names	NGAL
UniProt Entry Name	NGAL_RAT

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.