

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

Human Lipocalin-2/NGAL PicoKine ELISA Kit

CATALOG #
AAA11538

REACTIVITY
Human

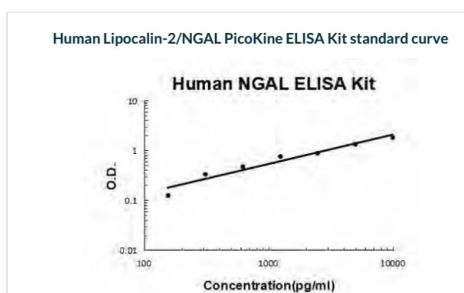
PRODUCT SYNONYMS

Lipocalin-2/NGAL; Human 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	Human
Specificity	Natural and recombinant Human LCN2
Sequence Length	198
Samples	Cell culture supernatants, serum, plasma (heparin), saliva and urine
Detection Range	156 pg/ml - 10,000 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 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)

ADDITIONAL INFORMATION

Related Product Information for LCN2 elisa kit	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 human NGAL, consisting of 178 amino acids with the molecular mass of 22KDa. Principle of the Assay: The Picokine™ Human LCN2 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human LCN2 with a 96-well strip plate that is pre-coated with antibody specific for LCN2. The detection antibody is a biotinylated antibody specific for LCN2. The capture antibody is monoclonal antibody from mouse and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Human LCN2 with immunogen: Expression system for standard: NS0; Immunogen sequence: Q21-G198. The kit is analytically validated with ready-to-use reagents. To measure Human LCN2, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP 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 at 450nm is linearly proportional to Human 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 Human LCN2 in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1171700
NCBI GeneID	3934
UniProt Accession #	P80188; P30150; Q5SYV9; Q5SYW0; Q6FGL5; Q92683; A6NII8; B4DWV4; B7ZAA2
Molecular Weight	22,457 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; MSFI; NGAL
NCBI Protein Information	neutrophil gelatinase-associated lipocalin; p25; lipocalin-2; oncogene 24p3; siderocalin LCN2; migration-stimulating factor inhibitor; 25 kDa alpha-2-microglobulin-related subunit of MMP-9
UniProt Protein Name	Neutrophil gelatinase-associated lipocalin
UniProt Gene Name	LCN2
UniProt Synonym Gene Names	HNL; NGAL; NGAL
UniProt Entry Name	NGAL_HUMAN

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.