

Human NGAL ELISA Kit | LCN2 elisa kit

Human NGAL ELISA Kit

CATALOG # AAA105709	REACTIVITY Human	APPLICATIONS ELISA
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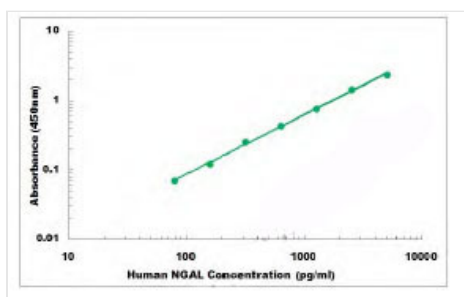
PRODUCT SYNONYMS

NGAL; Human NGAL ELISA Kit; HNL; Neutrophil gelatinase-associated lipocalin; 25 kDa alpha-2-microglobulin-related subunit of MMP-9; Lipocalin-2; Oncogene 24p3; Siderocalin LCN2; p25; LCN2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The Human NGAL ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human NGAL proteins within the range of 78 pg/ml - 5000 pg/ml.
Sequence Length	198
Samples	Cell Culture Supernatants, Serum, Plasma, Tissue Homogenates
Sensitivity	40 pg/ml.
Applicable Applications for LCN2 elisa kit	ELISA (Sandwich ELISA)
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for LCN2 elisa kit	Principle of the Assay: The Human NGAL ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human NGAL in Cell Culture Supernatants, Serum, Plasma, Tissue Homogenates. This assay employs an antibody specific for Human NGAL coated on a 96-well plate. Standards and samples are pipetted into the wells and NGAL present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human NGAL antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of NGAL bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Background/Introduction: Lipocalin-2 (LCN2), also known as NGAL, is a protein associated with neutrophil gelatinase. The LCN2 gene is located at 9q34 and contains 7 exons. 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-pi interaction and is a potent bacteriostatic agent in iron-limiting conditions. The primary LCN2 transcript is 3,696 nucleotides long, and the processed transcript is 809 nucleotides long. LCN2 expression in adult bone marrow, uterus, prostate, salivary gland, stomach, appendix, colon, trachea, and lung, and in fetal spleen and lung.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	38455402
NCBI GeneID	3934
NCBI Accession #	NP_005555.2
NCBI GenBank Nucleotide #	NM_005564.3
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.