

Human NGAL (Lipocalin-2) ELISA Kit | LCN2 elisa kit

Human NGAL ELISA Kit

CATALOG #
AAA76949

REACTIVITY
Human

PRODUCT SYNONYMS

NGAL (Lipocalin-2); Human NGAL ELISA Kit; Human NGAL (Lipocalin-2); LCN2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This ELISA is specific for the measurement of natural and recombinant mouse Lipocalin-2. It does not cross-react with human Lipocalin-2.
Samples	Cell Culture Supernatants, Serum And Plasma
Assay Type	Sandwich
Detection Range	0.156 ng/ml-10 ng/ml
Sensitivity	0.1 ng/ml
Intra-assay Precision	C.V <7%
Inter-assay Precision	C.V <12%
Preparation and Storage	Store at 4 degree C.

ADDITIONAL INFORMATION

Related Product Information for LCN2 elisa kit

Intended Uses: The Lipocalin-2 mouse ELISA kit is to be used for the measurement of mouse Lipocalin-2 in cell culture supernatants, serum and plasma. This ELISA kit is for research use only.

Principle of the Assay: This assay is a sandwich Enzyme Linked-Immunosorbent Assay (ELISA) for the measurement of mouse Lipocalin-2 in cell culture supernatants, serum and plasma. A polyclonal antibody specific for Lipocalin-2 has been pre-coated onto the 96-well microtiter plate. Standards (STD) and samples are pipetted into the wells for binding to the coated antibody. After extensive washing to remove unbound compounds, Lipocalin-2 is recognized by the addition of a biotinylated polyclonal antibody specific for mouse Lipocalin-2 (DET). After removal of excess biotinylated antibody, streptavidin-peroxidase (STREP-HRP) is added. Following a final washing, peroxidase activity is quantified using the substrate 3,3',5,5'-tetramethylbenzidine (TMB). The intensity of the color reaction is measured at 450 nm after acidification and is directly proportional to the concentration of mouse Lipocalin-2 in the samples!!Background/Introduction: Lipocalin-2 (LCN2), also known as neutrophil gelatinase-associated lipocalin (NGAL), 24p3, or neutrophil lipocalin (NL), is a 25-kDa secretory glycoprotein (1). Lipocalin 2 was initially defined as a powerful bacteriostatic agent active against various Gramnegative microorganisms through impeding bacterial iron sequestration (2, 3). LCN2 also functions as a stress protein that is released in a variety of other sterile inflammatory conditions such as adipose obesity-related inflammation and cancer (2, 3). LCN2 is over-expressed in many types of cancers including breast, pancreatic, and ovarian carcinomas and promotes tumorigenesis through enhancing tumor cell survival and proliferation, and metastatic potential (4, 5, 6). Furthermore, a growing body of evidence suggests that serum levels of lipocalin-2 are correlated with obesity, insulin resistance, hyperglycemia, coronary heart disease, acute renal injury and fatty liver disease (7, 8, 9).

Product Categories/Family for LCN2 elisa kit

ELISA Kit

NCBI AND UNIPROT INFORMATION

NCBI GI #	21619839
NCBI GeneID	3934
UniProt Accession #	P80188; P30150; Q5SYV9; Q5SYW0; Q6FGL5; Q92683; A6NII8; B4DWV4; B7ZAA2
Molecular Weight	22,588 Da
NCBI Official Full Name	Lipocalin 2
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; siderocalin; oncogene 24p3; OTTHUMP00000022238; OTTHUMP00000022239; OTTHUMP00000022240; 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
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.

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Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/ngal-lipocalin-2/76949>