

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

Lipocalin-2 protein (NGAL): Human (ELISA)

CATALOG #
AAA60540

REACTIVITY
Human

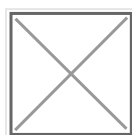
PRODUCT SYNONYMS

Lipocalin-2 protein (NGAL); Lipocalin-2 protein (NGAL): Human (ELISA); Human lipocalin 2 (NGAL); LCN2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The antibody pair used in this assay is specific to human lipocalin-2 and does not cross-react with mouse and rat lipocalin-2, and other cytokine or hormone molecules.
Sequence Length	198
Samples	Serum, plasma, urine and cell culture supernate samples
Assay Type	Quantitative Sandwich
Sensitivity	0.39 ng/ml

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for LCN2 elisa kit

Intended Uses: This Human lipocalin-2 ELISA kit is designed for quantification of human lipocalin-2 in serum, plasma, urine and cell culture supernate samples.

Principle of the Assay: This assay is a quantitative sandwich ELISA using monoclonal antibodies against human LCN2. The immunoplate is pre-coated with a monoclonal antibody specific for human LCN2. Standards and samples are added into the wells and any human LCN2 present is captured by the immobilized antibody. After washing away any unbound substances, a horseradish peroxidase (HRP)-linked monoclonal antibody specific for human LCN2 is added to the wells. After a final washing step to remove any unbound reagents, a HRP substrate solution is added and colour develops in proportion to the amount of human LCN2 bound initially. The reaction is stopped and the optical density of the wells determined using a microplate reader. Since the increases in absorbance are directly proportional to the amount of captured human LCN2, the unknown sample concentration can be interpolated from a reference curve included in each assay.

Background/Introduction: Lipocalin-2(LCN2), also known as neutrophil gelatinase-associated lipocalin (NGAL), 24p3, or neutrophil lipocalin (NL), is a 25-kDa secretory glycoprotein¹. LCN2 has been implicated in a variety of cellular processes including the innate immune response, differentiation, tumorigenesis, and cell survival^{2,3}. It appears to be upregulated in various inflammation and infection conditions. Several reports suggest that LCN2 may represent a sensitive biomarker for various renal injuries⁴ and is associated with several types of cancers, including breast cancer⁵, ovarian, colorectal, and pancreatic cancers^{6,7}. Furthermore, a growing body of evidence suggests that serum levels of lipocalin-2 are correlated with obesity, insulin resistance, hyperglycemia, coronary heart disease and fatty liver disease in humans⁸⁻¹¹.

References

1. A emerging clinical and experimental evidence for the role of lipocalin-2 in metabolic syndrome. Jang Y, Lee JH, Wang Y, Sweeney G. Clin Exp Pharmacol Physiol. 2012 Feb;39(2):194-9
2. The multifaceted roles of neutrophil gelatinase associated lipocalin (NGAL) in inflammation and cancer. Chakraborty S, Kaur S, Guha S, Batra SK. Biochim Biophys Acta. 2012 Aug;1826(1):129-69.

NCBI AND UNIPROT INFORMATION

NCBI GI #	21619839
NCBI GeneID	3934
NCBI Official Full Name	Lipocalin 2
NCBI Official Synonym Full Names	lipocalin 2
NCBI Official Symbol	LCN2
NCBI Official Synonym Symbols	p25; 24p3; MSFI; NGAL
NCBI Protein Information	neutrophil gelatinase-associated lipocalin

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/lipocalin-2-protein-ngal/60540>