

## Mouse Lipocalin-2 protein (NGAL) ELISA Kit | NGAL elisa kit

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

CATALOG #  
**AAA60548**

REACTIVITY  
**Mouse**

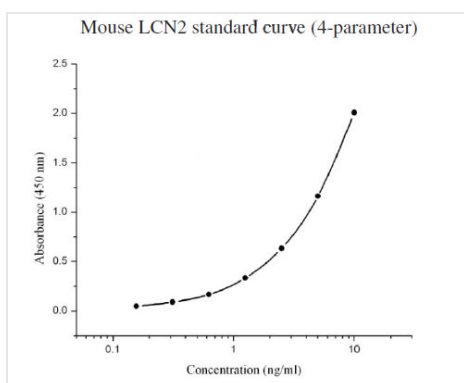
### PRODUCT SYNONYMS

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

### PRODUCT SPECIFICATIONS

|                 |                                                                                                                                               |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity      | Mouse                                                                                                                                         |
| Specificity     | The antibodies used in this assay are specific to mouse LCN2 and do not cross-react with human LCN2, and other cytokine or hormone molecules. |
| Sequence Length | 198                                                                                                                                           |
| Samples         | Serum, plasma and cell culture supernate samples                                                                                              |
| Assay Type      | Quantitative Sandwich                                                                                                                         |
| Sensitivity     | 0.156 ng/ml                                                                                                                                   |

### IMAGES



Standard Curve (Sample)

## ADDITIONAL INFORMATION

|                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for NGAL elisa kit</b> | <p>Intended Uses: This mouse LCN2 ELISA kit is designed for quantification of mouse LCN2 in serum, plasma and cell culture supernate samples.</p> <p>Principle of the Assay: This assay is a sandwich ELISA using antigen-affinity-purified polyclonal antibodies against mouse LCN2. The immunoplate is precoated with anti-mouse LCN2 capture antibody. Standards and samples are added to the wells and any mouse LCN2 present is captured by the immobilized antibody. After wash step to remove any unbound substances, a biotin labelled anti-mouse LCN2 detection antibody is added. After washing procedure, streptavidin- HRP conjugate (STP-HRP) is added. After the last wash step, an HRP substrate solution is added and colour develops in proportion to the amount of mouse LCN2 bound initially. The assay 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 mouse LCN2, the unknown sample concentration can be interpolated from a reference curve included in each assay.</p> <p>Background/Introduction: Lipocalin-2(LCN2), also known as neutrophil gelatinase-associated lipocalin (NGAL), 24p3, or neutrophil lipocalin (NL), is a 25-kDa secretory glycoprotein<sup>1</sup>. LCN2 has been implicated in a variety of cellular processes including the innate immune response, differentiation, tumorigenesis and cell survival<sup>2-3</sup>. It appears to be upregulated in various inflammation and infection conditions. Several reports suggest that LCN2 may represent a sensitive biomarker for various renal injuries<sup>4</sup> and is associated with several types of cancers, including breast cancer<sup>5</sup>, ovarian, colorectal and pancreatic cancers<sup>6- 7</sup>. Furthermore, a growing body of evidence suggests that serum levels of LCN2 are correlated with obesity, insulin resistance, hyperglycemia, coronary heart disease and fatty liver disease in humans<sup>8-11</sup>.</p> |
| <b>References</b>                                     | <ol style="list-style-type: none"><li>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</li><li>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.</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## NCBI AND UNIPROT INFORMATION

|                                         |                                            |
|-----------------------------------------|--------------------------------------------|
| <b>NCBI GI #</b>                        | <a href="#">21619839</a>                   |
| <b>NCBI GeneID</b>                      | <a href="#">3934</a>                       |
| <b>NCBI Official Full Name</b>          | Lipocalin 2                                |
| <b>NCBI Official Synonym Full Names</b> | lipocalin 2                                |
| <b>NCBI Official Symbol</b>             | LCN2                                       |
| <b>NCBI Official Synonym Symbols</b>    | p25; 24p3; MSFI; NGAL                      |
| <b>NCBI Protein Information</b>         | 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](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/lipocalin-2-protein-ngal/60548>