

## Rat NGAL / Lipocalin ELISA Kit | NGAL elisa kit

NGAL / Lipocalin Rat ELISA Kit

|                              |                          |                              |
|------------------------------|--------------------------|------------------------------|
| CATALOG #<br><b>AAA58902</b> | REACTIVITY<br><b>Rat</b> | APPLICATIONS<br><b>ELISA</b> |
|------------------------------|--------------------------|------------------------------|

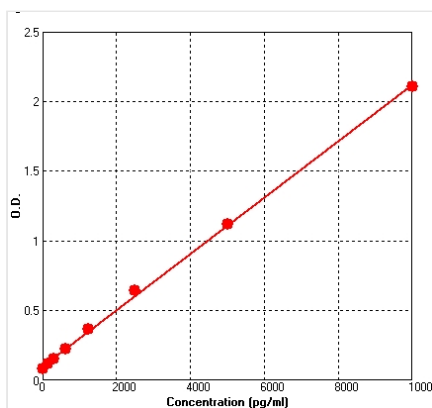
### PRODUCT SYNONYMS

NGAL / Lipocalin; NGAL / Lipocalin Rat ELISA Kit; Rat NGAL / Lipocalin; NGAL elisa kit

### PRODUCT SPECIFICATIONS

|                                            |                                     |
|--------------------------------------------|-------------------------------------|
| Reactivity                                 | Rat                                 |
| Assay Type                                 | Sandwich                            |
| Detection Range                            | 156 pg/ml-10,000 pg/ml              |
| Applicable Applications for NGAL elisa kit | ELISA                               |
| Preparation and Storage                    | Store at 2-8 degree C for 6 months. |

### IMAGES



Standard Curve (Sample)

## ADDITIONAL INFORMATION

### Related Product Information for NGAL elisa kit

**Principle of the Assay:** This kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. The purified anti-NGAL antibody was pre-coated onto 96-well plates. And the HRP conjugated anti-NGAL antibody was used as detection antibodies. The standards, test samples and HRP conjugated detection antibody were added to the wells subsequently, mixed and incubated, then, unbound conjugates were washed away with wash buffer. TMB substrates (A & B) were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the NGAL amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of NGAL can be calculated.

**Background:** Lipocalin-2 (LCN2), also known as oncogene 24p3 or neutrophil gelatinase-associated lipocalin (NGAL), is a protein associated with neutrophil gelatinase. 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. Upon encountering invading bacteria the toll-like receptors on immune cells stimulate the synthesis and secretion of lipocalin-2. Secreted lipocalin-2 then limits bacterial growth by sequestering iron-containing siderophores. Lipocalin-2 also functions as a growth factor.

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">38455402</a>                                                                                                                                                                                                       |
| NCBI GeneID                      | <a href="#">3934</a>                                                                                                                                                                                                           |
| NCBI Accession #                 | <a href="#">NP_005555.2</a>                                                                                                                                                                                                    |
| NCBI GenBank Nucleotide #        | <a href="#">NM_005564.3</a>                                                                                                                                                                                                    |
| UniProt Accession #              | <a href="#">P80188</a> ; <a href="#">P30150</a> ; <a href="#">Q5SYV9</a> ; <a href="#">Q5SYW0</a> ; <a href="#">Q6FGL5</a> ; <a href="#">Q92683</a> ; <a href="#">A6NII8</a> ; <a href="#">B4DWV4</a> ; <a href="#">B7ZAA2</a> |
| Molecular Weight                 | 22,588 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                | <b>LCN2</b>                                                                                                                                                                                                                    |
| 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.

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/rat-elisa-kits/ngal-lipocalin/58902>