

## Rabbit LCN2 Polyclonal Antibody | anti-LCN2 antibody

LCN2 Polyclonal Antibody

|                               |                       |                                        |                                                    |
|-------------------------------|-----------------------|----------------------------------------|----------------------------------------------------|
| CATALOG #<br><b>AAA168180</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Immunohistochemistry, ELISA</b> |
|-------------------------------|-----------------------|----------------------------------------|----------------------------------------------------|

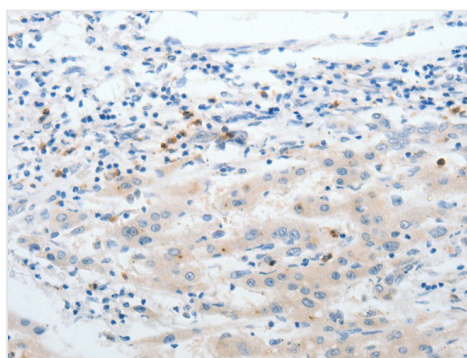
### PRODUCT SYNONYMS

LCN2; Polyclonal Antibody; LCN2 Polyclonal Antibody; 24p3; MSFI; NGAL; anti-LCN2 antibody

### PRODUCT SPECIFICATIONS

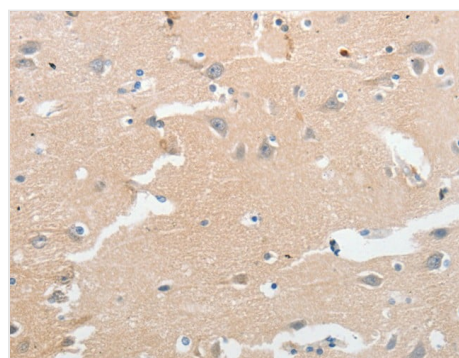
|                                                |                                                                                           |
|------------------------------------------------|-------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                    |
| Reactivity                                     | Human, Mouse, Rat                                                                         |
| Clonality                                      | Polyclonal                                                                                |
| Isotype                                        | IgG                                                                                       |
| Purity/Purification                            | Antigen affinity purification                                                             |
| Concentration                                  | 2.1mg/mL (varies by lot)                                                                  |
| Sequence Length                                | 198                                                                                       |
| Applicable Applications for anti-LCN2 antibody | IHC (Immunohistochemistry), ELISA                                                         |
| Immunogen                                      | Synthetic peptide of human LCN2                                                           |
| Buffer                                         | PBS with 0.05% sodium azide, 50% glycerol, pH7.3                                          |
| Preparation and Storage                        | Store at -20 degree C (regular) and -80 degree C (long term). Avoid freeze / thaw cycles. |

### IMAGES



**IHC (Immunohistochemistry)**

Immunohistochemistry of paraffin-embedded Human liver cancer tissue using LCN2 Polyclonal Antibody at dilution 1:50



**IHC (Immunohistochemistry)**

Immunohistochemistry of paraffin-embedded Human brain tissue using LCN2 Polyclonal Antibody at dilution 1:50

ADDITIONAL INFORMATION

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|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-LCN2 antibody | Iron-trafficking protein involved in multiple processes such as apoptosis, innate immunity and renal development. Binds iron through association with 2, 5-dihydroxybenzoic acid (2, 5-DHBA), a siderophore that shares structural similarities with bacterial enterobactin, and delivers or removes iron from the cell, depending on the context. Iron-bound form (holo-24p3) is internalized following binding to the SLC22A17 (24p3R) receptor, leading to release of iron and subsequent increase of intracellular iron concentration. In contrast, association of the iron-free form (apo-24p3) with the SLC22A17 (24p3R) receptor is followed by association with an intracellular siderophore, iron chelation and iron transfer to the extracellular medium, thereby reducing intracellular iron concentration. Involved in apoptosis due to interleukin-3 (IL3) deprivation: iron-loaded form increases intracellular iron concentration without promoting apoptosis, while iron-free form decreases intracellular iron levels, inducing expression of the proapoptotic protein BCL2L11/BIM, resulting in apoptosis. Involved in innate immunity, possibly by sequestering iron, leading to limit bacterial growth. |
| Product Categories/Family for anti-LCN2 antibody   | Cancer; Cell biology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                              |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 49457137                                                                                                                                                                                     |
| NCBI GeneID                      | 3934                                                                                                                                                                                         |
| UniProt Accession #              | P80188; P30150; Q5SYV9; Q5SYW0; Q6FGL5; Q92683; A6NII8; B4DWV4; B7ZAA2                                                                                                                       |
| Molecular Weight                 | 22,457 Da                                                                                                                                                                                    |
| NCBI Official Full Name          | LCN2, partial                                                                                                                                                                                |
| 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; 25 kDa alpha-2-microglobulin-related subunit of MMP-9; lipocalin-2; migration-stimulating factor inhibitor; oncogene 24p3; p25; siderocalin LCN2 |
| 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.

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/polyclonal/lcn2-antibody-immunohistochemistry-elisa/168180>