

# Recombinant Rat Lipocalin-2 / NGAL protein ab108563

## 1 References

### 描述

|           |   |
|-----------|---|
| 产品名称      | 重组大鼠Lipocalin-2 / NGAL蛋白                        |
| 纯度        | > 90 % SDS-PAGE.<br>ab108563 is 0.2µm filtered. |
| 内毒素水平     | < 0.100 Eu/µg                                   |
| 表达系统      | HEK 293 cells                                   |
| Accession | <b><u>P30152</u></b>                            |
| 蛋白长度      | Full length protein                             |
| 无动物成分     | No  |
| 性质        | Recombinant                                     |
| 种属        | Rat   |
| 预测分子量     | 25 kDa  |
| 氨基酸       | 1 to 198  |
| 标签        | DDDDK tag C-Terminus                            |

### 技术指标

Our **Abpromise guarantee** covers the use of **ab108563** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

|    |          |
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| 应用 | SDS-PAGE |
| 形式 | Liquid   |

### 制备和贮存

|        |   |
|--------|---|
| 稳定性和存储 | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.<br>Constituent: PBS |
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### 常规信息

|    |   |
|----|---|
| 功能 | 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 BCL2L1/BIM, resulting in apoptosis. Involved in innate immunity, possibly by sequestering iron, leading to limit bacterial growth.

#### 组织特异性

Expressed in bone marrow and in tissues that are prone to exposure to microorganism. High expression is found in bone marrow as well as in uterus, prostate, salivary gland, stomach, appendix, colon, trachea and lung. Not found in the small intestine or peripheral blood leukocytes.

#### 序列相似性

Belongs to the calycin superfamily. Lipocalin family.

#### 细胞定位

Secreted. Upon binding to the SLC22A17 (24p3R) receptor, it is internalized.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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