

### Recombinant Mouse Lipocalin-2 / NGAL protein ab95008

#### 製品の詳細

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製品名	Recombinant Mouse Lipocalin-2 / NGAL protein
精製度	> 95 % SDS-PAGE. Filtered (0.22 µm).
発現系	Escherichia coli
アクセッション番号	<b>P11672</b>
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Mouse
配列	MSYYHHHHHH DYDIPTTENL YFQGAMGS QDSTQNLIPA PSLLTVPLQP DFRSDQFRGR WYVVGLAGNA VQKKTEGSFT MYSTIYELQE NNSYNVTSIL VRDQDQGCRY WIRTFVPSSR AGQFTLGNMH RYPQVQSYNV QVATTDYNQF AMVFFRKTSE NKQYFKITLY GRTKELSPPEL KERFTRFAKS LGLKDDNIIF SVPTDQCIDN
予測される分子量	24 kDa including tags
領域	21 to 200
タグ	His tag N-Terminus

#### 特性

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Our **Abpromise guarantee** covers the use of **ab95008** in the following tested applications.

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

アプリケーション	Western blot Immunoprecipitation ELISA
製品の状態	Lyophilized

#### 前処理および保存

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保存方法および安定性 Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw

cycles.

Constituent: PBS

**再構成** Add deionized water to prepare a working stock solution of approximately 1 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture. Aliquot reconstituted protein to avoid repeated freezing /thawing cycles and store at  $-80^{\circ}\text{C}$  for long term storage. Reconstituted protein can be stored at  $4^{\circ}\text{C}$  for a limited period of time; it does not show any change after two weeks at  $4^{\circ}\text{C}$ .

## 関連情報

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**機能** 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 BCL2L11/BIM, resulting in apoptosis. Involved in innate immunity, possibly by sequestering iron, leading to limit bacterial growth.

**組織特異性** 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.

**配列類似性** Belongs to the calycin superfamily. Lipocalin family.

**細胞内局在** Secreted. Upon binding to the SLC22A17 (24p3R) receptor, it is internalized.

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

## Our Abpromise to you: Quality guaranteed and expert technical support

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.co.jp/abpromise> or contact our technical team.

## Terms and conditions

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