

Product datasheet

Recombinant Mouse Lipocalin-2 / NGAL protein ab95008

概述

产品名称	重组小鼠Lipocalin-2 / NGAL蛋白
蛋白长度	Full length protein

描述

性质	Recombinant
来源	Escherichia coli

氨基酸序列

Accession [P11672](#)

种属 Mouse

序列 MSYYHHHHHH DYDIPTTENL YFQGAMGS
 QDSTQNLIPA PSLTIVPLQP DFRSDQFRGR
 WYVVGLAGNA VQKKTEGSFT MYSTIYELQE
 NNSYNVTSIL VRDQDQGCY WIRTFVPSSR
 AGQFTLGNMH RYPQVQSYNV QVATTDYNQF
 AMVFFRKTSE NKQYFKITLY GRTKELSP
 KERFTRFAKS LGLKDDNIIF SVPTDQCIDN

分子量	24 kDa including tags
氨基酸	21 to 200
标签	His tag N-Terminus

技术指标

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.

应用	Western blot Immunoprecipitation ELISA
纯度	> 95 % SDS-PAGE. Filtered (0.22 µm).
形式	Lyophilised

制备和贮存

稳定性和存储

Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Preservative: None

Constituents: PBS

复溶

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°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.

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 BCL2L11/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 AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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