

Recombinant Human Lipocalin-2 / NGAL protein ab95007

1 References 2 图像

描述	
产品名称	重组人Lipocalin-2 / NGAL蛋白
纯度	> 95 % SDS-PAGE. Filtered (0.22 µm). Purified using Ni-NTA resin
内毒素水平	> 0.200 Eu/mg
表达系统	Escherichia coli
Accession	P80188
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MPLGLLWLGL ALLGALHAQA QDSTSDLIPA PPLSKVPLQQ NFQDNQFQ GK WYVVGLAGNA ILREDKDPQK MYATIELKE DKSYNVTSVL FRKKKCDYWI RTFVPGCQPG EFTLGNIKSY PGLTSYLVRV VSTNYNQHAM VFFKKVSQNR EYFKITLYGR TKELTSELKE NFIRFSKSLG LPENHIVFPV PIDQCIDG
预测分子量	24 kDa
氨基酸	21 to 198
标签	His tag N-Terminus
额外的序列信息	N-terminal His-tag and TEV cleavage site, 28 extra AA.

技术指标	
Our Abpromise guarantee covers the use of ab95007 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
形式	Lyophilized

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.

Constituent: 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.

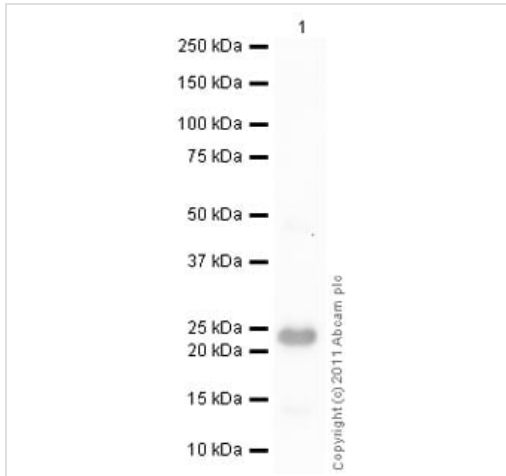
序列相似性

Belongs to the calycin superfamily. Lipocalin family.

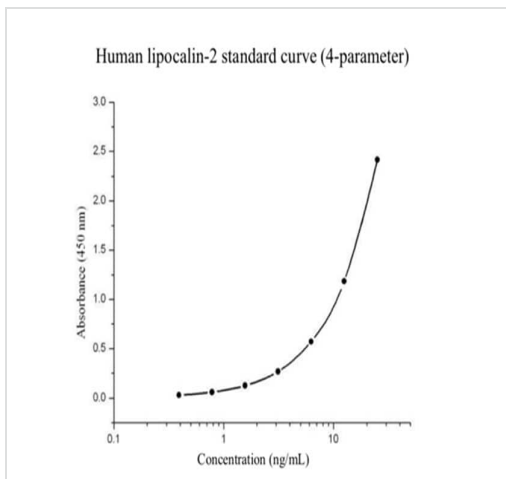
细胞定位

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

图片



Western blot - Recombinant Human Lipocalin-2 /
NGAL protein (ab95007)



ELISA - Recombinant Human Lipocalin-2 / NGAL
protein (ab95007)

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