

Product datasheet

Anti-Lipocalin-2 / NGAL antibody [14] ab188551

2 Images

Overview

Product name	Anti-Lipocalin-2 / NGAL antibody [14]
Description	Mouse monoclonal [14] to Lipocalin-2 / NGAL
Host species	Mouse
Tested applications	Suitable for: Sandwich ELISA
Species reactivity	Reacts with: Dog, Human, Pig Does not react with: Mouse, Rat
Immunogen	Recombinant full length protein corresponding to Human Lipocalin-2/ NGAL aa 1-198. Sequence:

MPLGLLWLGL ALLGALHAQA QDSTSDLIPA
 PPLSKVPLQQ NFQDNQFQ GK WYVVGLAGNA
 ILREDKDPQK MYATYELKE DKSYNVTSVL FRKKKCDYWI
 RTFVPGCQPG EFTLGNIKSY PGLTSLVLRV
 VSTNYNQHAM VFFKKVSQNR EYFKITLYGR
 TKELTSELKE NFIRFSKSLG LPENHIVFPV PIDQCIDG

Database link: [P80188](#)

 [Run BLAST with](#)

 [Run BLAST with](#)

General notes

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions,

special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.1% Sodium azide Constituents: 2.9% Sodium chloride, 97% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	14
Isotype	IgG1
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab188551** in the following tested applications.

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

Application	Abreviews	Notes
Sandwich ELISA		Use at an assay dependent concentration.

Target

Function 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.

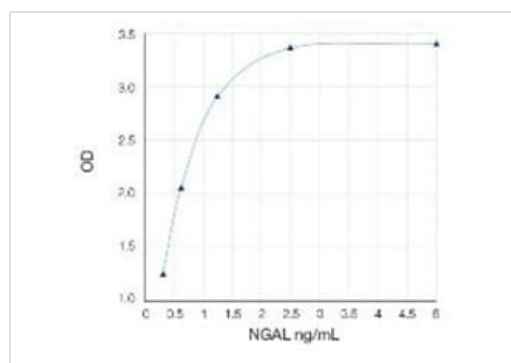
Tissue specificity Expressed in bone marrow and in tissues that are prone to exposure to microorganism. High expression is found in bone marrow as well as in uterus, prostate, salivary gland, stomach, appendix, colon, trachea and lung. Not found in the small intestine or peripheral blood leukocytes.

Sequence similarities

Belongs to the calycin superfamily. Lipocalin family.

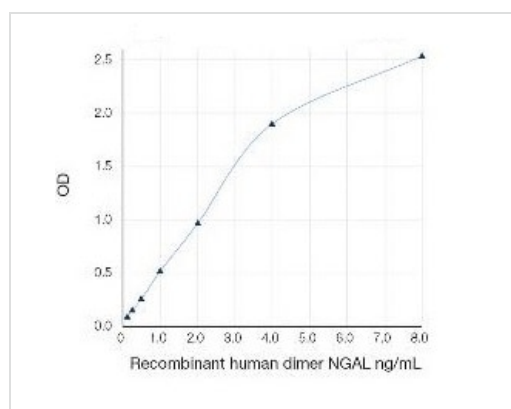
Cellular localization

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

Images

Sandwich ELISA - Anti-Lipocalin-2 / NGAL antibody
[14] (ab188551)

Example of a calibration curve of a sandwich assay for matched antibody pair detecting total human Lipocalin-2 / NGAL using a188551 and its biotinylated version.



Sandwich ELISA - Anti-Lipocalin-2 / NGAL antibody
[14] (ab188551)

Example of a calibration curve of a sandwich assay for human dimer Lipocalin-2 / NGAL using a188551 as the capture antibody and another antibody as the biotinylated detection antibody.

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

- 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.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors