

Anti-Lipocalin-2 / NGAL antibody ab89819

[3 Images](#)

Overview

Product name	Anti-Lipocalin-2 / NGAL antibody
Description	Mouse polyclonal to Lipocalin-2 / NGAL
Host species	Mouse
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human
Immunogen	<p>Recombinant full length protein within Human Lipocalin-2/ NGAL aa 1-200. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact our Scientific Support team to discuss your requirements.</p> <p>Database link: NP_005555.1</p>
Positive control	WB: spleen tissue lysate. IHC: pancreas tissue.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	<p>pH: 7.40</p> <p>Constituent: 100% PBS</p>
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab89819 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
WB		
IHC-P		

Application notes

IHC-P: Use at a concentration of 3 µg/ml. Antigen retrieval is not essential but may optimise staining. Microwave method recommended.

WB: Use at a concentration of 1 µg/ml. Predicted molecular weight: 23 kDa.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

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.

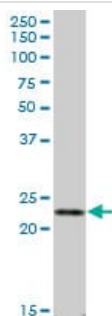
Sequence similarities

Belongs to the calycin superfamily. Lipocalin family.

Cellular localization

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

Images

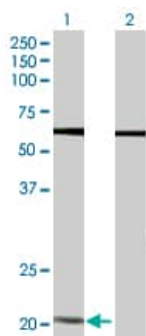


Western blot - Anti-Lipocalin-2 / NGAL antibody
(ab89819)

Anti-Lipocalin-2 / NGAL antibody (ab89819) at 1 µg/ml + Human spleen tissue lysate at 50 µg

Predicted band size: 23 kDa

Observed band size: 23 kDa



Western blot - Anti-Lipocalin-2 / NGAL antibody
(ab89819)

All lanes : Anti-Lipocalin-2 / NGAL antibody (ab89819) at 1 µg/ml

Lane 1 : Lipocalin 2 transfected 293T cell lysate

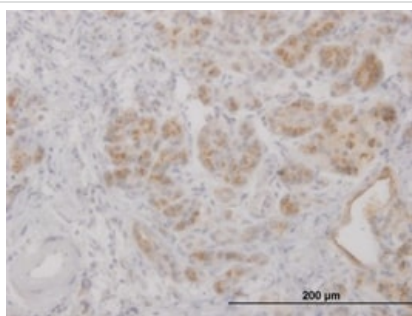
Lane 2 : Non-transfected lysate

Lysates/proteins at 25 µg per lane.

Predicted band size: 23 kDa

Observed band size: 23 kDa

Additional bands at: ~60 kDa. We are unsure as to the identity of these extra bands.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lipocalin-2 / NGAL antibody (ab89819)

ab89819 at 3µg/ml staining Lipocalin-2/ NGAL in formalin-fixed, paraffin-embedded Human pancreas tissue by immunohistochemistry .

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