

## Product datasheet

# Anti-Lipocalin-2 / NGAL antibody [ABS 039-08] ab53500

[1 Image](#)

### Overview

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<b>Product name</b>	Anti-Lipocalin-2 / NGAL antibody [ABS 039-08]
<b>Description</b>	Mouse monoclonal [ABS 039-08] to Lipocalin-2 / NGAL
<b>Host species</b>	Mouse
<b>Specificity</b>	This antibody reacts with Lipocalin-2 / NGAL
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Rat <b>Does not react with:</b> Human
<b>Immunogen</b>	Recombinant full length protein (His-tag) corresponding to Rat Lipocalin-2/ NGAL (C terminal). His-tag coupled to carrier
<b>General notes</b>	<p>FUSION PARTNER: Sp2/mL-6.</p> <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&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.097% Sodium azide Constituents: 2.9% Sodium chloride, 0.0268% PBS
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	ABS 039-08
<b>Isotype</b>	IgG1

Light chain type

kappa

## Applications

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### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab53500 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
IHC-P		Use at an assay dependent concentration.

## Target

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### 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.

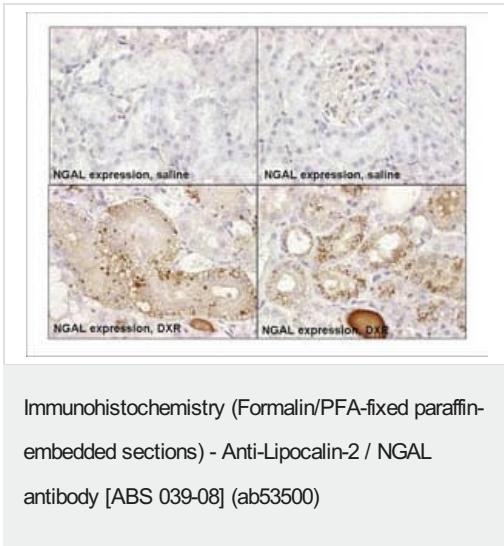
### Cellular localization

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

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## Images

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Lipocalin-2 / NGAL immunostaining in kidney, Formalin-fixed, paraffin-embedded tissue sections of cortical epithelial cells in the S1/S2 segments (proximal convoluted tubules) following DXR-induced acute kidney injury. Top panel, saline treatment; bottom panel, DXR treatment; X630 (2).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lipocalin-2 / NGAL antibody [ABS 039-08] (ab53500)

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

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