



Datasheet for ABIN685627

## anti-Lipocalin 2 antibody (AA 101-198)



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### Overview

Quantity:	100 µL
Target:	Lipocalin 2 (LCN2)
Binding Specificity:	AA 101-198
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Lipocalin 2 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Lipocalin 2
Isotype:	IgG
Cross-Reactivity:	Human
Predicted Reactivity:	Mouse,Rat,Dog,Cow,Pig,Rabbit
Purification:	Purified by Protein A.

### Target Details

Target:	Lipocalin 2 (LCN2)
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## Target Details

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Alternative Name: Lipocalin 2 ([LCN2 Products](#))

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Background: Synonyms: 24p3, MSFI, NGAL, Neutrophil gelatinase-associated lipocalin, 25 kDa alpha-2-microglobulin-related subunit of MMP-9, Lipocalin-2, Oncogene 24p3, Siderocalin LCN2, p25, LCN2, HNL

Background: 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.

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Gene ID: 3934

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UniProt: [P80188](#)

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Pathways: [Cellular Response to Molecule of Bacterial Origin](#), [Transition Metal Ion Homeostasis](#)

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## Application Details

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Application Notes: ELISA 1:500-1000  
FCM 1:20-100  
IHC-P 1:200-400  
IHC-F 1:100-500  
IF(IHC-P) 1:50-200  
IF(IHC-F) 1:50-200  
IF(ICC) 1:50-200

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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## Handling

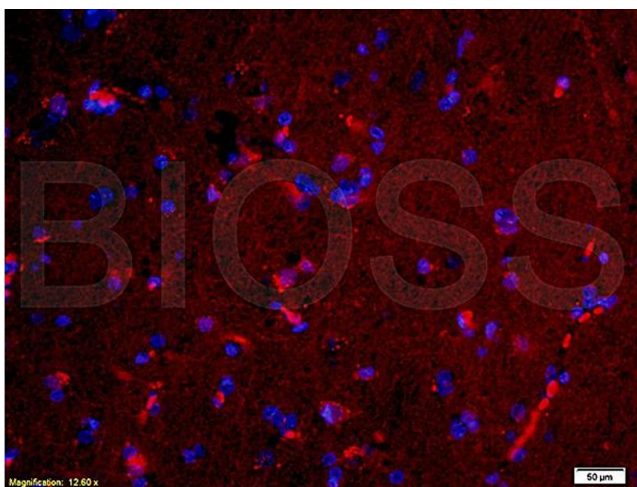
Concentration:	1 µg/µL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

## Publications

Product cited in: Xu, Zhang, Cheng, Liu, Zou, Zhan, Xiao, Xia: "Transcription factor 7-like 1 dysregulates keratinocyte differentiation through upregulating lipocalin 2." in: **Cell death discovery**, Vol. 2, pp. 16028, (2016) ([PubMed](#)).

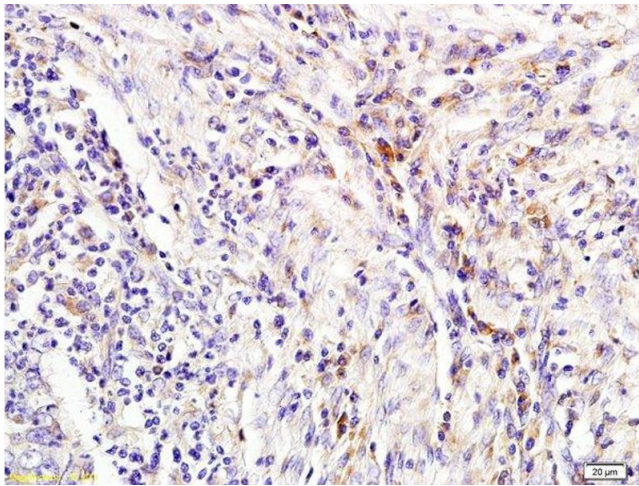
Xing, Wang, Cheng, Montaner, Mandeville, Leung, van Leyen, Lok, Wang, Lo: "Neuronal production of lipocalin-2 as a help-me signal for glial activation." in: **Stroke; a journal of cerebral circulation**, Vol. 45, Issue 7, pp. 2085-92, (2014) ([PubMed](#)).

## Images



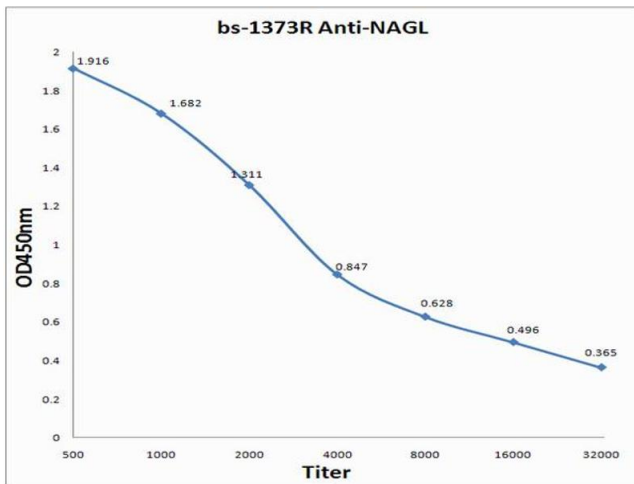
### Immunofluorescence

**Image 1.** Formalin-fixed and paraffin-embedded human brain labeled with Rabbit Anti-NGAL Polyclonal Antibody, Unconjugated (ABIN685627) 1:200 followed by conjugation to the PE secondary antibody and DAPI staining



### Immunohistochemistry

**Image 2.** Formalin-fixed and paraffin embedded human colon carcinoma labeled with Rabbit Anti NGAL/Lipocalin 2 Polyclonal Antibody, Unconjugated (ABIN685627) at 1:200 followed by conjugation to the secondary antibody and DAB staining



### ELISA

**Image 3.** Antigen: 0.2 µg/100 µL Primary: Antiserum, 1:500, 1:1000, 1:2000, 1:4000, 1:8000, 1:16000, 1:32000; Secondary: HRP conjugated Goat-Anti-Rabbit IgG at 1: 5000; TMB staining; Read the data in MicroplateReader by 450

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN685627.