

Datasheet: MCA6199B

BATCH NUMBER 100005426

Description:	MOUSE ANTI HUMAN NGAL:Biotin
Specificity:	NGAL
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	D02-7D4
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			1.0 ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG conjugated to Biotin - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide (NaN ₃)
Stabilisers	1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	<i>E. coli</i> derived recombinant human NGAL (Gln21-Gly198)

**External Database
Links**

UniProt:

[P80188](#) [Related reagents](#)

Entrez Gene:

[3934](#) LCN2 [Related reagents](#)

Synonyms

HNL, NGAL

Fusion Partners

Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0

Specificity

Mouse anti Human NGAL antibody, clone D02-7D4, recognizes Neutrophil Gelatinase-Associated Lipocalin (NGAL) also known as lipocalin-2, 24 kDa alpha-2-microglobulin-related subunit of MMP-9 and siderocalin. NGAL is a 198 amino acid 25 kDa secreted protein which possesses a lipid binding domain which enables it to bind small hydrophobic ligand molecules such as bacterial siderophores ([Bauvois & Susin 2018](#), [Abella et al. 2015](#)). As well as the 25 kDa form, NGAL can exist as a 46 kDa homodimer and a 130 kDa heterodimer with MMP-9. The interaction with MMP-9 occurs in the extracellular space upon secretion of both proteins. It is through this interaction that MMP-9 proteolytic activity can be inhibited ([Chakraborty et al. 2012](#)).

NGAL is expressed in various cell types including adipocytes, hepatocytes, pneumocytes, splenocytes, mesangial and microglial cells. NGAL has also been observed circulating at low levels in urine and blood of healthy subjects (40-109 ng/ml) . However it is overexpressed during various inflammatory, metabolic, neurologic and cancer pathologies. The higher levels of NGAL expression in these diseases have been correlated with disease severity and poor prognosis ([Bauvois & Susin 2018](#), [Chakraborty et al. 2012](#)).

The biotinylated Mouse anti Human NGAL antibody, clone D02-7D4 (MCA6199B) can be used as a detection antibody in a sandwich ELISA with the purified Mouse anti Human NGAL antibody, clone D11-6D10 ([MCA6198GA](#)) as the capture antibody.

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

**Health And Safety
Information**

Material Safety Datasheet documentation #10041 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA6199B>
10041

Regulatory

For research purposes only

Related Products

Recommended Useful Reagents

[MOUSE ANTI HUMAN NGAL \(MCA6198GA\)](#)
[RECOMBINANT HUMAN NGAL \(PHP302\)](#)

ELISA Matched Pair - Capture Antibody

[MOUSE ANTI HUMAN NGAL \(MCA6198GA\)](#)

ELISA Antigen - Positive Control

[RECOMBINANT HUMAN NGAL \(PHP302\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M386379:210521'

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