

Datasheet: MCA6198GA

Description:	MOUSE ANTI HUMAN NGAL
Specificity:	NGAL
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	D11-6D10
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 - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 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 D11-6D10, 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 purified Mouse anti Human NGAL antibody, clone D11-6D10 (MCA6198GA) can be used as a capture antibody in a sandwich ELISA with the biotinylated Mouse anti Human NGAL antibody, clone D02-7D4 ([MCA6199B](#)) as the detection antibody.

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee

12 months from date of despatch

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

Recommended Useful Reagents

[MOUSE ANTI HUMAN NGAL:Biotin \(MCA6199B\)](#)

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

ELISA Matched Pair - Detection Antibody

[MOUSE ANTI HUMAN NGAL:Biotin \(MCA6199B\)](#)

ELISA Antigen - Positive Control

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

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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

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