

Datasheet: MCA6199B

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 Stabilisers	0.09% Sodium Azide (NaN ₃) 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
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Fusion Partners	Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0
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Specificity	<p>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).</p> <p>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).</p> <p>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.</p>
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Storage	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
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Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
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Regulatory	For research purposes only
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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 \(PHP302\)](#)

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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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