

Anti-NGAL (human)

CAT. NO. ABS 062-14

OVERVIEW

Product Name	Anti-NGAL (human)	Conjugation	Unconjugated
Description	Mouse monoclonal antibody	Host	Mouse
Isotype	IgG2a/k	Clone	14
Tested Applications	ELISA		

SPECIFICITY

Specificity	ABS 062-14 is specific for human NGAL (neutrophil gelatinase-associated lipocalin). Epitope differs from those of ABS 038-04, ABS 038-15 and ABS 062-33.		
Immunogen	Human recombinant NGAL coupled to carrier	Gene ID	3934
Target	Neutrophil gelatinase-associated lipocalin (NGAL; also called lipocalin 2, siderocalin and neutrophil lipocalin) is a member of the lipocalin family of proteins which bind and transport small lipophilic molecules. NGAL is released by activated neutrophils and occurs as 25-kDa glycosylated single protein chain monomers, which form dimers and small amounts of higher oligomers, as well as complexes with matrix metalloproteinase 9 (MMP-9; gelatinase B). Low level expression of NGAL in a variety of epithelia may be increased in inflammation or cancers. Expression of NGAL in the kidney is dramatically increased by acute kidney injury.		
Species Reactivity POSITIVE	Human	Species Reactivity NEGATIVE	Not determined

PROPERTIES

Form	Liquid	Unit Size	0,4 mL and 1 mL
Concentration	1 mg/mL \pm 15%, See CoA for lot details		
Purification	Protein A or Protein G purified	Purification Notes	BSA free
Storage buffer	0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide		
Storage condition	2-8°C without exposure to light		
Safety	Wear protective clothing		

TESTED APPLICATIONS

ELISA	ABS 062-14 binds human NGAL coated onto a solid phase. ABS 062-14 forms a sandwich pair with ABS 038-04, ABS 038-15 and ABS 062-33 for measuring human NGAL. When ABS 062-14 is used as a biotinylated detection antibody with ABS 062-33 as a capture antibody, the assay is specific for NGAL monomer, cross-reacting <1% with NGAL homodimer. (1)
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SCIENTIFIC REFERENCES

1. Bangert et al (2013) The Monomer is the Major Form of NGAL in Urine and Plasma in Severe Sepsis J Am Soc Nephrol 24: 368A.

CONDITIONS

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