

## Anti-NGAL (rat)

CAT. NO. ABS 039-32

### OVERVIEW

<b>Product Name</b>	Anti-NGAL (rat)	<b>Conjugation</b>	Unconjugated
<b>Description</b>	Mouse monoclonal antibody	<b>Host</b>	Mouse
<b>Isotype</b>	IgG1/k	<b>Clone</b>	32
<b>Tested Applications</b>	ELISA, WB		

### SPECIFICITY

<b>Specificity</b>	ABS 039-32 binds rat NGAL (neutrophil gelatinase-associated lipocalin).		
<b>Immunogen</b>	Recombinant rat NGAL precursor	<b>Gene ID</b>	170496
<b>Target</b>	Rat NGAL, so called because it is the ortholog of human neutrophil gelatinase-associated lipocalin (NGAL), is also called lipocalin 2, 25-kDa alpha 2-microglobulin-related protein or neu-related lipocalin. It is expressed by neutrophils and various epithelial cells, including tubular cells of the kidney. It is involved in physiological processes such as the binding of siderophore iron and tissue growth and regeneration. It is up-regulated in a variety of pathological situations including infection, inflammation, renal injury and certain adenocarcinomas.		
<b>Species Reactivity</b>	Rat	<b>Species Reactivity</b>	Human, Pig, Dog,
<b>POSITIVE</b>		<b>NEGATIVE</b>	Mouse

### PROPERTIES

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

### TESTED APPLICATIONS

<b>ELISA</b>	ABS 039-32 binds free rat NGAL in solution. ABS 039-32 (as biotinylated detection antibody) forms a sandwich ELISA pair with ABS 039-15 (as capture antibody) for measuring rat NGAL, measuring range 4-400 pg/mL in an optimized assay). (1)
<b>WB</b>	ABS 039-32 can be used in Western blotting.

### 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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