

## Anti-NGAL (rat)

CAT. NO. ABS 039-32

### OVERVIEW

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

### SPECIFICITY

Specificity	ABS 039-32 binds rat NGAL (neutrophil gelatinase-associated lipocalin).	Gene ID	170496
Immunogen	Recombinant rat NGAL precursor		
Target	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.		
Species Reactivity	Rat	Species Reactivity	Human, Pig, Dog,
POSITIVE		NEGATIVE	Mouse

### PROPERTIES

Form	Liquid	Unit Size	0,4 mL and 1 mL
Concentration	1 mg/mL ±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 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)
WB	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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