Anti-NGAL (mouse)

CAT. NO. ABS 043-29

OVERVIEW

Product Name	Anti-NGAL (mouse)	**Conjugation**	Unconjugated
Description	Rat monoclonal antibody	**Host**	Rat
Isotype	IgG1/k	**Clone**	29
Tested Applications	ELISA, WB, IHC		

SPECIFICITY

Specificity	ABS 043-29 binds NGAL (neutrophil gelatinase-associated lipocalin) in mouse serum.		
Immunogen	Recombinant mouse NGAL	**Gene ID**	16819
Target	Mouse neutrophil gelatinase-associated lipocalin (NGAL; also called lipocalin 2, 24p3, SIP24, uterocalin and siderocalin) is a member of the lipocalin family of proteins which bind and transport small lipophilic molecules. 24p3 was observed to be dramatically upregulated in kidney cell cultures infected with SV40 and subsequently identified as a lipocalin. Unlike human NGAL, it is an acute phase protein upregulated in the liver, but like its mammalian homologues it is upregulated and secreted by the kidney in response to ischemic or nephrotoxic injury. It is also upregulated in the involuting uterus and mammary gland.		
Species Reactivity POSITIVE	Mouse	**Species Reactivity NEGATIVE**	Human, Pig, Dog, Rat

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 043-29 binds free mouse NGAL in solution. ABS 043-29 forms an antibody pair for sandwich ELISA with ABS 043-10. It is recommended to use ABS 043-10 as capture antibody and biotinylated ABS 043-29 as a detection antibody. (1)
WB	ABS 043-29 can be used in Western blotting.
IHC	ABS 043-29 detects NGAL in paraffin-embedded sections in ischemia-reperfusion injured kidney cells from mouse (dilution 1:1000). Microwave pretreatment using Citrat buffer pH 6, is recommended.

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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