

**Anti NGAL (rat, neutrophil gelatinase-associated lipocalin)  
Mouse monoclonal antibody**

Subclass: IgG1/k

PRODUCT NO.	<b>ABS 039-32</b>																
PRESENTATION	Preparation: Protein-A/G purified Content: Available in 200 µL and 1 mL volumes, 1 mg/mL Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide Storage: In the dark at 4-8°C																
ANTIGEN	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 cells of the renal proximal tubules. It is involved in physiological processes such as the binding of siderophore iron and tissue growth and regeneration. It is upregulated in a variety of pathological situations including infection, inflammation, ischemia-reperfusion and in certain adenocarcinomas.																
IMMUNOGEN	Recombinant rat NGAL precursor with C-terminal His-tag coupled to carrier.																
SPECIFICITY	ABS 039-32 binds rat NGAL and shows no cross-reaction with human NGAL.																
EPI TOPE SPECIFICITY	Not determined																
REACTIVITY	ABS 039-32 binds free rat NGAL in solution. The ELISA dilution guideline applies to rat NGAL coated directly at 1.0 µg/mL.  ABS 039-32 (as biotinylated detection antibody) forms a sandwich ELISA pair with ABS 039-08 (as capture antibody) for measuring rat NGAL, giving detection limit of 0.012 ng/mL in an unoptimized buffer assay.																
CULTURE MEDIUM	RPMI 1640 with 10% fetal calf serum																
FUSION PARTNER	Sp2/mIL-6 (LGC Promochem, ATCC # CRL-2016)																
IMMUNIZATION	Female NMR1xBALB/c mice immunized i.p. with immunogen adsorbed onto aluminum hydroxide gel and emulsified in Freund's incomplete adjuvant.																
APPLICATION	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Method</th> <th style="width: 20%;">Usability</th> <th style="width: 25%;">Dilution guideline</th> <th style="width: 25%;">References</th> </tr> </thead> <tbody> <tr> <td>ELISA</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">1:4000</td> <td></td> </tr> <tr> <td>Immunoblotting</td> <td style="text-align: center;">Not determined</td> <td></td> <td></td> </tr> <tr> <td>Immunohistochemistry</td> <td style="text-align: center;">Not determined</td> <td></td> <td></td> </tr> </tbody> </table> <p><small>The dilution guideline for ELISA is based on use as detection antibody for antigen coated at 0.1-1 µg/ml. Users should determine the optimal dilutions for their own purposes.</small></p>	Method	Usability	Dilution guideline	References	ELISA	Yes	1:4000		Immunoblotting	Not determined			Immunohistochemistry	Not determined		
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REFERENCES	1. Mishra J, Ma Q, Prada A, Mitsnefes M, Zahedi K, Yang J, Barasch J, Devarajan P (2003) Identification of neutrophil gelatinase-associated lipocalin as a novel early urinary biomarker for ischemic renal injury. <i>J Am Soc Nephrol</i> 14:2534-43.																

**CONDITIONS**

All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.