

Anti NGAL (rat, neutrophil gelatinase-associated lipocalin)

Mouse monoclonal antibody, biotinylated

Subclass: IgG1/k

PRODUCT NO.

ABS039-32B

PRESENTATION

Preparation: Biotinylated
Content: 150 µL, 1 mg/ml
Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.13 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. ABS 039-32

SPECIFICITY

binds rat NGAL and shows no cross-reaction with human NGAL. Not determined

EPITOPE

ABS 039-32 binds free rat NGAL in solution. The ELISA dilution guideline applies to rat NGAL coated directly at 1.0 µg/ml .

SPECIFICITY

REACTIVITY

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/mll -6 (LGC Promochem, ATCC # CRL-2016)

IMMUNIZATION

Female NMRIxBALB /c mice immunized i.p. with immunogen adsorbed onto aluminum hydroxide gel and emulsified in Freund's incomplete adjuvant.

APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes	1:1000	
Immunoblotting	Not determined		
Immunohistochemistry	Not determined		

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.

REFERENCES

- 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. J Am Soc Nephrol 14:2534-43.

CONDITIONS

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