

PRODUCT SPECIFICATION

Anti-neutrophil gelatinase-associated lipocalin (rat, NGAL)

Mouse monoclonal antibody, biotinylated

Subclass: IgG1/k

PRODUCT NO.

ABS 039-32 B

PRESENTATION

Preparation: Biotinylated

Content: 50 µL, 1 mg/mL +/- 15%. See Certificate of Analysis for details.

Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.14 M NaCl and 15 mM sodium azide

Storage: 4-8°C without exposure to light. No precautions necessary during handling.

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 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.

IMMUNOGEN

Recombinant rat NGAL precursor adsorbed onto aluminum hydroxide gel

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. 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).

CULTURE MEDIUM

RPMI 1640 with 10% fetal calf serum

FUSION PARTNER

Sp2/mIL-6 (LGC Promochem, ATCC # CRL-2016)

IMMUNIZATION

Female NMRIxBALB/c mice immunized by intraperitoneal injection

APPLICATION

Method	Usability	References
ELISA	Yes	
Immunoblotting	Not determined	
Immunohistochemistry	Not determined	

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. J Am Soc Nephrol 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.