

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

PRODUCT NO.

ABS 039-08

Subclass: IgG1/k

Clone: 8

PRESENTATION

Preparation: Protein-A/G purified

Content: Available in 200 µL and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details.

Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 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 039-08 binds rat NGAL and shows no cross-reaction with human NGAL.

EPI TOPE SPECIFICITY

Not determined

REACTIVITY

ABS 039-08 binds free rat NGAL in solution.

CULTURE MEDIUM

RPMI 1640 with 10% fetal calf serum

FUSION PARTNER

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

IMMUNIZATION

NMRI x BALB/c mice immunized by intraperitoneal injection

APPLICATION

Method	Usability	References
ELISA	Yes	
Immunoblotting	Not determined	
Immunohistochemistry	Yes	2

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.
- Zhang J, Ohm J, Vaidya V, Espandiari P, Knappont A, Goering P, Brown R, Bonventre J, Herman E (2009) NGAL Expression in Kidney of Spontaneously Hypertensive Rats (SHR) Treated with Doxorubicin (DXR) Alone or Combined with Dexrazoxane (DRZ) (Presented at Tox Expo 2009)

CONDITIONS

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