

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

PRODUCT NO.

ABS 038-23

Subclass: IgG2b/k

Clone:23

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

Neutrophil gelatinase-associated lipocalin (NGAL; also called lipocalin 2, siderocalin and neutrophil lipocalin) is a member of the lipocalin family of proteins which bind and transport small lipophilic molecules. NGAL is released by activated neutrophils and occurs as 25-kDa glycosylated single protein chain monomers, which form dimers and small amounts of higher oligomers, as well as complexes with matrix metalloproteinase 9 (MMP-9; gelatinase B) (1). Low level expression of NGAL in a variety of epithelia may be increased in inflammation or cancers (2). Expression of NGAL in the kidney is dramatically increased by acute kidney injury (3).

IMMUNOGEN

Recombinant human NGAL adsorbed onto aluminum hydroxide gel

SPECIFICITY

ABS 038-23 binds cynomolgus monkey (*Macaca fascicularis*) NGAL and cross-reacts with human NGAL.

ABS 038-23 binds human NGAL in complex with MMP-9.

EPI TOPE SPECIFICITY

Differs from that of ABS 038-04,-15,-23,-26 and HYB 211-01 and HYB 211-02.

REACTIVITY

ABS 038-23 (as capture antibody) forms a sandwich pair with HYB 211-02 (as biotinylated detection antibody) for measuring cynomolgus monkey (*Macaca fascicularis*) and human NGAL.

ABS 038-23 binds human NGAL in solution.

CULTURE MEDIUM

RPMI 1640 with 2-10% fetal calf serum

FUSION PARTNER

SP2mIL6

IMMUNIZATION

Female NMRIxBALB/c mice immunized by intraperitoneal injection

APPLICATION

Method	Usability	References
ELISA	Yes	
Immunoblotting	Not determined	
Immunohistochemistry	Not determined	

REFERENCES

1. Kjeldsen L, Johnsen AH, Sengeløv H, Borregaard N (1993) Isolation and primary structure of NGAL, a novel protein associated with human neutrophil gelatinase. *J Biol Chem* 268:10425-10432.
2. Nielsen BS, Borregaard N, Bundgaard JR, Timshel S, Sehested M, Kjeldsen L (1996) Induction of NGAL synthesis in epithelial cells of human colorectal neoplasia and inflammatory bowel diseases. *Gut* 38:414-420.
3. Matthaeus T, Schulze-Lohoff E, Ichimura T, Weber M, Andreucci M, Park KM, Alessandrini A, Bonventre JV (2001) Co-regulation of neutrophil gelatinase-associated lipocalin and matrixmetalloproteinase-9 in the posts ischemic rat kidney. *J Am Soc Nephrol* 12:787A.

CONDITIONS

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