

Monoclonal Anti- NGAL (Capture Ab)**Catalog#** BDA1006**Lot #** Check on the product label**Size** 1mg**Isotype** IgG1**Clone #** F2**Host** Mouse**Reactivity**

Human

Product Form Liquid**Purification & Buffer**

Protein A or G purified and supplied in 0.01 M PBS (pH7.4) without preservative.

Purity >95% by HPLC & SDS-PAGE**Concentration** 4 mg/ml**Immunogen**

Recombinant human NGAL.

Specificity It specifically recognize the human NGAL.**Recommend Application**

Western Blot

ELISA

Lateral flow

Other applications have not been tested.

The optimal dilutions should be determined by end user.

Matched antibody pair

Capture Ab: NGAL mAb (clone # F2)

Detection Ab: NGAL mAb (clone # 1G2)

Storage Instruction

Aliquot and store at -20°C for long term (at

least one year).

Avoid repeated freeze and thaw cycles.

Background

Lipocalin-2 (LCN2), also known as oncogene 24p3 or neutrophil gelatinase-associated lipocalin (NGAL), is a protein associated with neutrophil gelatinase. The 25-kD LCN2 protein is believed to bind small lipophilic substances such as bacteria-derived lipopolysaccharide (LPS) and formylpeptides and may function as a modulator of inflammation. Upon encountering invading bacteria the toll-like receptors on immune cells stimulate the synthesis and secretion of lipocalin-2. Secreted lipocalin-2 then limits bacterial growth by sequestering iron-containing siderophores. Lipocalin-2 also functions as a growth factor.

Reference

1. Kjeldsen, L., Johnsen, A. H., Sengelov, H., Borregaard, N. Isolation and primary structure of NGAL, a novel protein associated with human neutrophil gelatinase. *J. Biol. Chem.* 268: 10425-10432, 1993.
2. Flo TH, Smith KD, Sato S, Rodriguez DJ, Holmes MA, Strong RK, Akira S, Aderem A (December 2004). "Lipocalin 2 mediates an innate immune response to bacterial infection by sequestering iron". *Nature* 432 (7019): 917–21.
3. Schmidt-Ott KM, Mori K, Li JY, Kalandadze A, Cohen DJ, Devarajan P, Barasch J (February 2007). "Dual action of neutrophil gelatinase-associated lipocalin". *J. Am. Soc. Nephrol.* 18 (2): 407–13.

FOR RESEARCH USE ONLY, NOT FOR DIAGNOSTIC AND CLINICAL USE.

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