



Polyclonal Anti- Europhile gelatinase-associated lipocalin, *NGAL* (Sepharose Bead Conjugate)

Catalogue No. PA1381-S

Lot No. 0131112028127

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

Rat. No cross reactivity
with other proteins.

Recommended application

(Immunoprecipitation(IP))

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminal of rat NGAL (38-53 aa), identical to the related mouse and rat sequence.

Purification

Immunogen affinity purified.

Formulation

50% slurry in PBS pH 7.2 with 0.01mg NaN₃a₃ preservative.

Storage

Store at 4°C for frequent use.

Description:

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays

BACKGROUND

Europhile gelatinase-associated lipocalin (NGAL) is a protein that in humans is encoded by the LCN2 gene. The binding of lipocalin-2 to bacterial siderophores is important in the innate immune response to bacterial infection. 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 AH, Sengeløv H, Borregaard N (May 1993). "Isolation and primary structure of NGAL, a novel protein associated with human neutrophil gelatinase". J. Biol. Chem. 268 (14): 10425–32.
- 2.Chan P, Simon-Chazottes D, Mattei MG, Guenet JL, Salier JP (September 1994). "Comparative mapping of lipocalin genes in human and mouse: the four genes for complement C8 gamma chain, prostaglandin-D-synthase, oncogene-24p3, and progesterone-associated endometrial protein map to HSA9 and MMU2". Genomics 23 (1): 145–50.
- 3.Cowland JB, Borregaard N (October 1997). "Molecular characterization and pattern of tissue expression of the gene for neutrophil gelatinase-associated lipocalin from humans". Genomics 45 (1): 17–23.
- 4.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.
- 5.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.
- 6.Nelson AM, Zhao W, Gilliland KL, Zaenglein AL, Liu W, Thiboutot DM (April 2008).

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