

NGAL Antibody / Lipocalin 2 / LCN2 (R32169)

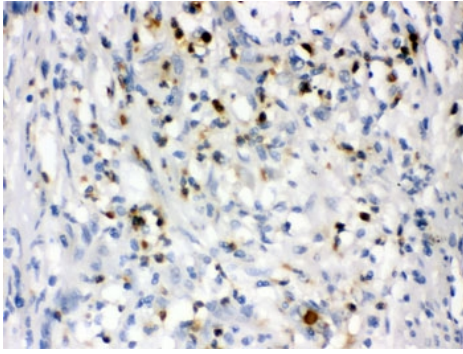
Catalog No.	Formulation	Size
R32169	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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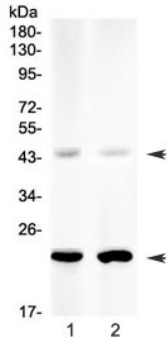
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P80188
Localization	Cytoplasmic
Applications	Western blot : 0.1-0.5ug/ml IHC (FFPE) : 0.5-1ug/ml ELISA : 0.1-0.5ug/ml (human protein tested); request BSA-free format for coating
Limitations	This NGAL antibody is available for research use only.



Western blot testing of human 1) A549 and 2) SMMC cell lysate with NGAL antibody at 0.5ug/ml. Predicted/observed molecular weight: 22-25 kDa (monomer).



IHC testing of FFPE human intestinal cancer tissue with NGAL antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



Western blot testing of human 1) SMMC-7721 and 2) A549 cell lysate (50ug/lane) with NGAL antibody at 0.5ug/ml. Predicted/observed molecular weight: 22-25 kDa (monomer), ~45 kDa (homodimer). Higher amounts of lysate/lane, a greater concentration of primary antibody or longer exposure times may be required to visualize the homodimer.

Description

Euophile 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.

Application Notes

Optimal dilution of the NGAL antibody should be determined by the researcher.

Immunogen

Amino acids 21-198 of human LCN2 were used as the immunogen for the NGAL antibody.

Storage

After reconstitution, the NGAL antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.