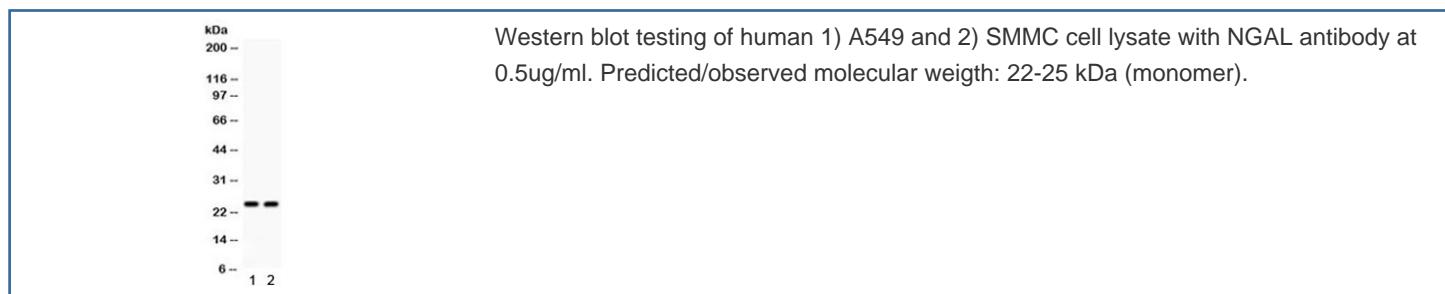


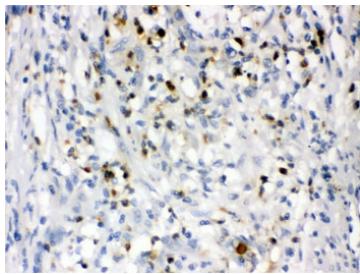
NGAL Antibody / Lipocalin 2 / LCN2 (R32169)

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

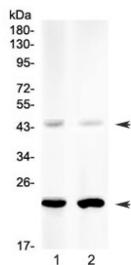
Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
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.





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

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.

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.