

For Research Use Only

NGAL Polyclonal antibody

Catalog Number: 26991-1-AP

Featured Product

27 Publications



Basic Information

Catalog Number:

26991-1-AP

Size:

150ul, Concentration: 600 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG25715

GenBank Accession Number:

GeneID (NCBI):

3934

Full Name:

lipocalin 2

Observed MW:

25 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:10000

IHC 1:50-1:500

IF 1:50-1:500

Applications

Tested Applications:

WB, IF, FC, IHC, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

human, mouse

Cited Species:

human

Positive Controls:

WB : HT-29 cells, human saliva

IHC : human colon cancer tissue, human stomach cancer tissue

IF : RAW 264.7 cells, A431 cells

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Lipocalin-2 (LCN-2) is a adipocytokine also referred to as neutrophil gelatinase-associated lipocalin (NGAL). Lipocalin-2 is a circulatory protein responsible for the transportation of small and hydrophobic molecules to target organs. Lipocalin-2 is used as a biomarker for acute and chronic renal injury. It is present in a large variety of cells including neutrophil, hepatocytes, lung, bone marrow, adipose tissue, macrophages, thymus, non-neoplastic breast duct, prostate, and renal cells. Different functions have been associated with Lipocalin-2, including antibacterial, anti-inflammatory, and protection against cell and tissue stress (PMID:34463264).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|---------------|-----------|-------------------|-------------|
| Xiaojun Ren | 36273006 | Nat Commun | IF |
| Zongrui Jiang | 34721542 | Front Genet | IHC |
| Yunfeng Hou | 35543324 | J Agric Food Chem | WB,IHC |

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

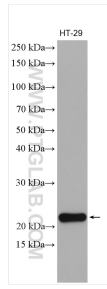
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

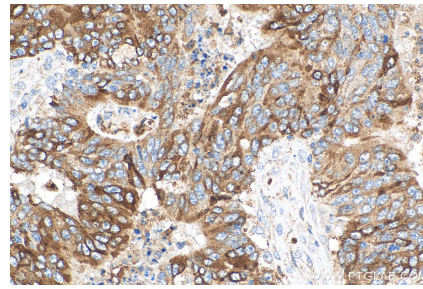
E: proteintech@ptglab.com
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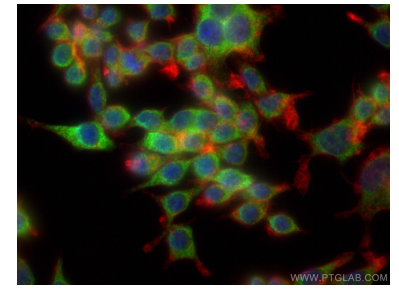
Selected Validation Data



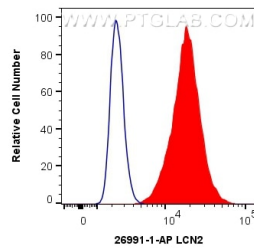
HT-29 cells were subjected to SDS PAGE followed by western blot with 26991-1-AP (Lipocalin-2/NGAL antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 26991-1-AP (LCN2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed RAW 264.7 cells using Lipocalin-2/NGAL antibody (26991-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



1X10⁶ A431 cells were intracellularly stained with 0.4 ug Anti-Human Lipocalin-2/NGAL (26991-1-AP) and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).