

For Research Use Only

Lipocalin-2/NGAL Polyclonal antibody

Catalog Number: 26991-1-AP

Featured Product

48 Publications



Basic Information

Catalog Number:

26991-1-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG25715

GenBank Accession Number:

GeneID (NCBI):

3934

UNIPROT ID:

P80188

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/ICC: 1:50-1:500

FC (Intra): 0.40 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human

Cited Species:

human

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

Positive Controls:

WB: HT-29 cells, human saliva

IHC: human colon cancer tissue, human stomach cancer tissue

IF/ICC: A431 cells,

FC (Intra): A431 cells,

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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

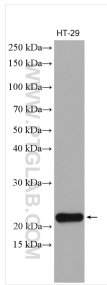
T: 4006900926

E: Proteintech-CN@ptglab.com

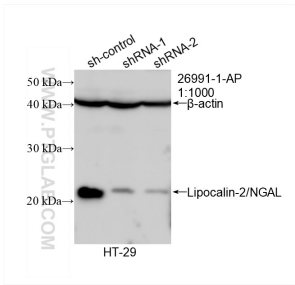
W: ptgcn.com

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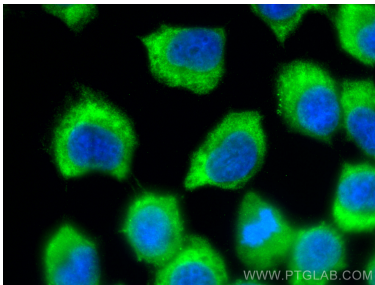
Selected Validation Data



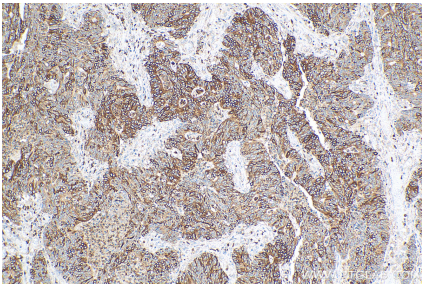
HT-29 cells were subjected to SDS PAGE followed by western blot with 26991-1-AP (Lipocalin-2/NGAL antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



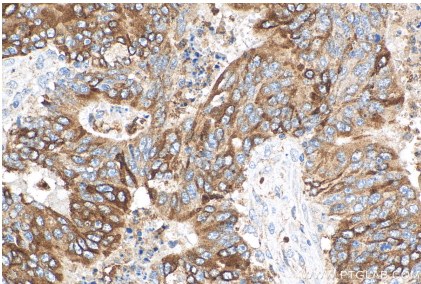
WB result of NGAL antibody (26991-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NGAL transfected HT-29 cells.



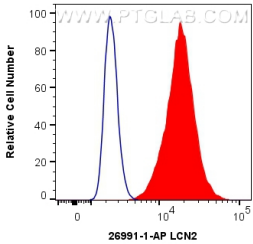
Immunofluorescent analysis of (-20°C Ethanol) fixed A431 cells using Lipocalin-2/NGAL antibody (26991-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 26991-1-AP (Lipocalin-2/NGAL antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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.