



Rabbit Anti-Lipocalin 2/NGAL antibody

SL1373R

Product Name:	Lipocalin 2/NGAL
Chinese Name:	脂质运载蛋白抗体
Alias:	Lipocalin 2; Neutrophil Gelatinase associated Lipocalin; 25 kDa alpha 2 microglobulin related subunit of MMP9; Alpha 2 microglobulin related protein; HGNC:6526; HNL; Lcn 2; Lcn2; Neutrophil gelatinase associated lipocalin precursor; NGAL; Oncogene 24p3; P25; SV40 induced 24P3 protein. 24p3; 25 kDa alpha-2-microglobulin-related subunit of MMP-9; Lipocalin-2; Migration stimulating factor inhibitor; MSFI; Neutrophil gelatinase associated lipocalin precursor; Neutrophil gelatinase-associated lipocalin; NGAL_HUMAN; Oncogenic lipocalin 24p3; Siderocalin; siderocalin LCN2; SV40 induced 24P3 protein.
文献引用 PubMed :	Specific References(1) SL1373R has been referenced in 1 publications. [IF=6.16] Xing, Changhong, et al. "Neuronal Production of Lipocalin-2 as a Help-Me Signal for Glial Activation." Stroke (2014): STROKEAHA-114.IHC-P;Human. PubMed:24916903
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	20kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Lipocalin 2:101-198/198
Lsotype:	IgG

Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>Lipocalin 2 is a member of the lipocalin family which encompass more than 25 members (including proteins like retinol binding protein, a1 microglobulin, b lactoglobulin, apolipoprotein D and odorant binding protein). The members of the lipocalin family are characterized by their ability to bind small lipophilic substances in their hydrophobic core, and thereby serve as transporters of substances.</p> <p>Function: Iron-trafficking protein involved in multiple processes such as apoptosis, innate immunity and renal development. Binds iron through association with 2,5-dihydroxybenzoic acid (2,5-DHBA), a siderophore that shares structural similarities with bacterial enterobactin, and delivers or removes iron from the cell, depending on the context. Iron-bound form (holo-24p3) is internalized following binding to the SLC22A17 (24p3R) receptor, leading to release of iron and subsequent increase of intracellular iron concentration. In contrast, association of the iron-free form (apo-24p3) with the SLC22A17 (24p3R) receptor is followed by association with an intracellular siderophore, iron chelation and iron transfer to the extracellular medium, thereby reducing intracellular iron concentration. Involved in apoptosis due to interleukin-3 (IL3) deprivation: iron-loaded form increases intracellular iron concentration without promoting apoptosis, while iron-free form decreases intracellular iron levels, inducing expression of the proapoptotic protein BCL2L11/BIM, resulting in apoptosis. Involved in innate immunity, possibly by sequestering iron, leading to limit bacterial growth.</p> <p>Subunit: Homodimer; disulfide-linked. Heterodimer; disulfide-linked with MMP9.</p> <p>Subcellular Location: Secreted. Note=Upon binding to the SLC22A17 (24p3R) receptor, it is internalized.</p> <p>Tissue Specificity: Expressed in bone marrow and in tissues that are prone to exposure to microorganism. High expression is found in bone marrow as well as in uterus, prostate, salivary gland, stomach, appendix, colon, trachea and lung. Not found in the small intestine or peripheral blood leukocytes.</p> <p>Similarity: Belongs to the calycin superfamily. Lipocalin family.</p> <p>SWISS: P80188</p>

Gene ID:
3934

Database links:

[Entrez Gene: 3934](#) Human

[Entrez Gene: 16819](#) Mouse

[Entrez Gene: 170496](#) Rat

[Omim: 600181](#) Human

[SwissProt: P80188](#) Human

[SwissProt: P11672](#) Mouse

[SwissProt: P30152](#) Rat

[Unigene: 204238](#) Human

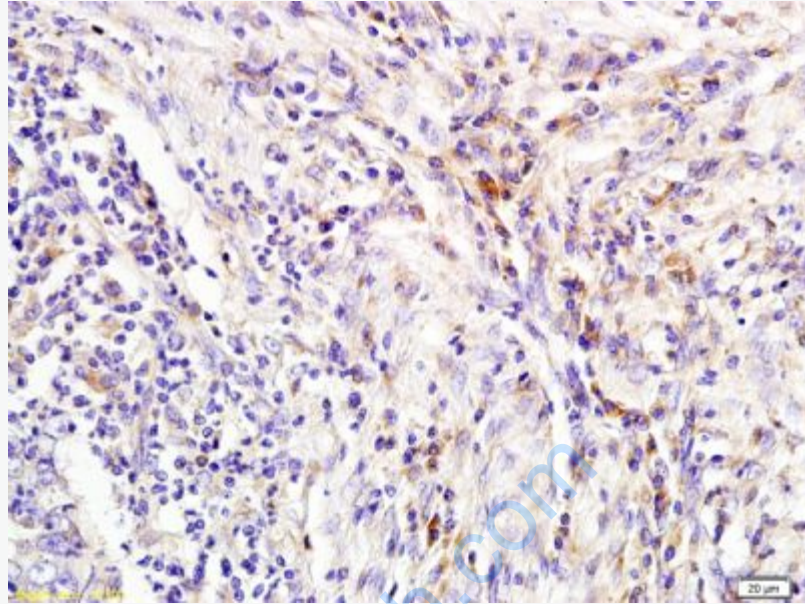
[Unigene: 9537](#) Mouse

[Unigene: 11303](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

NGAL在胚胎发育、Cell differentiation、Apoptosis、细胞Signal transduction、脂质代谢及Tumour的发生发展以及参与炎症免疫反应等多种生命活动过程中发挥着作用, 尤其是近年来在消化系统Tumour的研究中, 受到了重视。

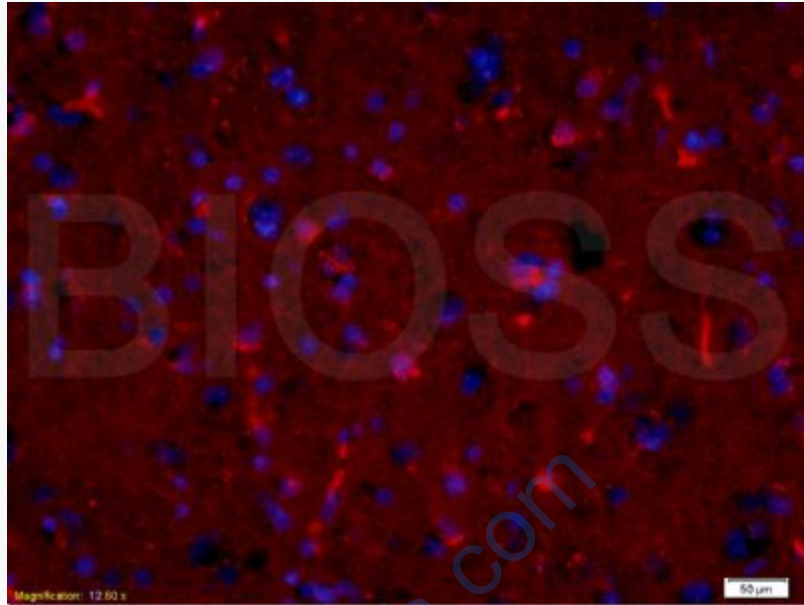


Picture:

Tissue/cell: human colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

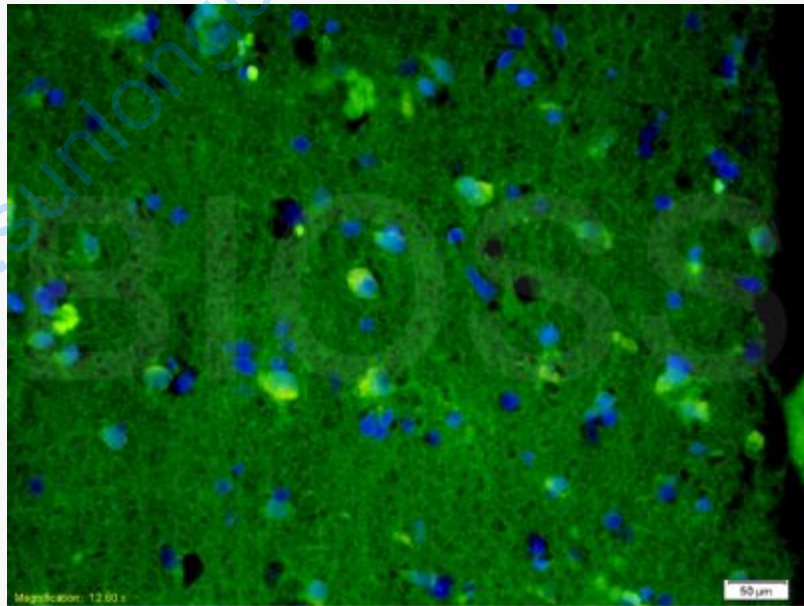
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-NGAL Polyclonal Antibody, Unconjugated(SL1373R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



bs-1373R Anti-NGAL Polyclonal Antibody

Tissue/cell: glioma of human brain;4% Paraformaldehyde-fixed and paraffin-embedded
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min
Blocking buffer (normal goat serum) at 37°C for 20 min
Incubation: Anti-NGAL Polyclonal Antibody, Unconjugated(bs-1373R) 1:200, overnight at 4°C, The secondary antibody was Goat Anti-Rabbit IgG, PE conjugated(bs-0295G-PE)used at 1:200 dilution for 40 minutes at 37°C. DAPI(5ug/ml,blue) was used to stain the cell nuclei



bs-1373R Anti-NGAL Polyclonal Antibody

Tissue/cell: glioma of human brain;4% Paraformaldehyde-fixed and paraffin-embedded
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min
Blocking buffer (normal goat serum) at 37°C for 20 min
Incubation: Anti-NGAL Polyclonal Antibody, Unconjugated(bs-1373R) 1:200, overnight at 4°C, The secondary antibody was Goat Anti-Rabbit IgG, FITC conjugated(bs-0295G-FITC)used at 1:200 dilution for 40 minutes at 37°C. DAPI(5ug/ml,blue) was used to stain the cell nuclei