



Rabbit Anti-NGAL/Lipocalin 2 antibody

SL41133R

Product Name:	NGAL/Lipocalin 2
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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=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:	Recombinant human NGAL:
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

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.

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.

Subunit:

Homodimer; disulfide-linked. Heterodimer; disulfide-linked with MMP9.

Subcellular Location:

Secreted. Note=Upon binding to the SLC22A17 (24p3R) receptor, it is internalized.

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.

Similarity:

Belongs to the calycin superfamily. Lipocalin family.

SWISS:

P80188

Gene ID:

3934

Database links:

[Entrez Gene: 3934](#)Human

Product Detail:

[Entrez Gene: 16819](#)Mouse

[Entrez Gene: 170496](#)Rat

[Omim: 600181](#)Human

[SwissProt: P80188](#)Human

[SwissProt: P11672](#)Mouse

[SwissProt: P30152](#)Rat

[Unigene: 204238](#)Human

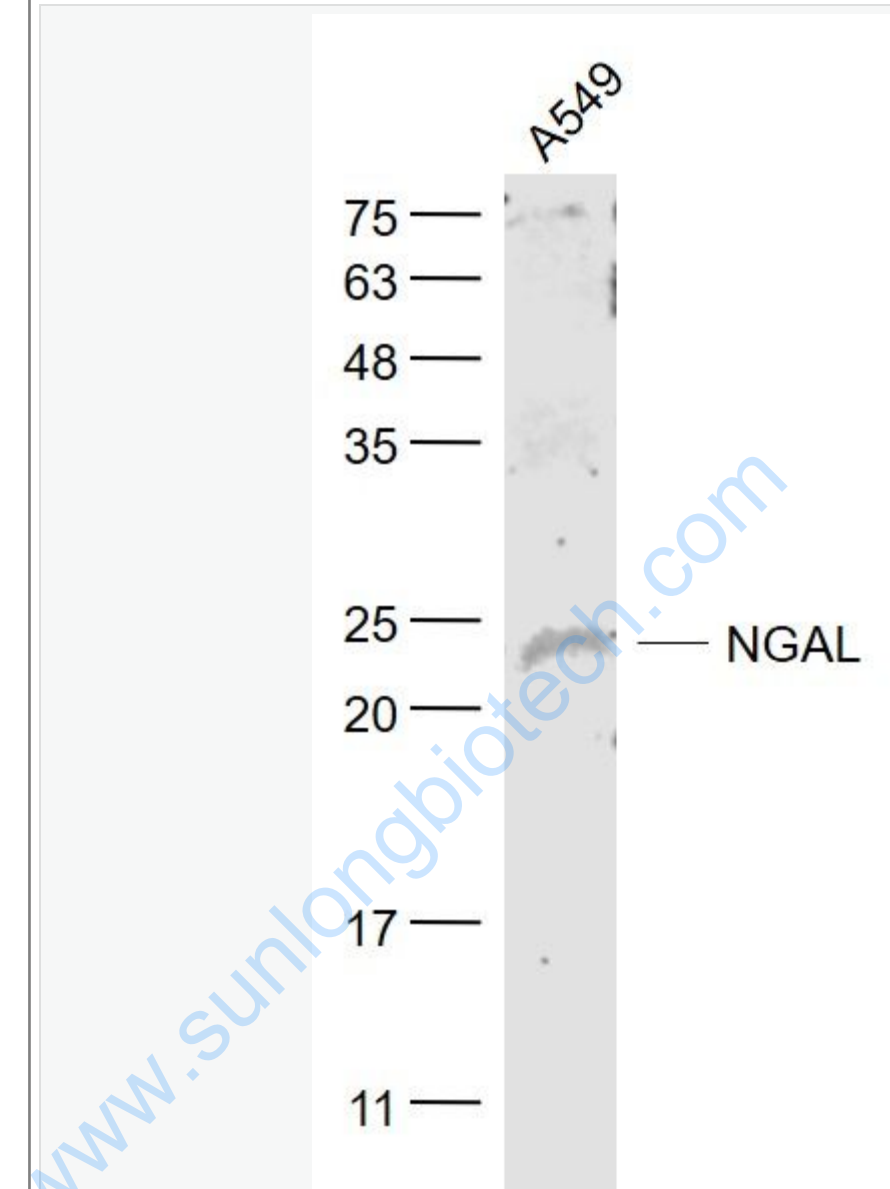
[Unigene: 9537](#)Mouse

[Unigene: 11303](#)Rat

Important Note:

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

Picture:



Sample:

A549(Human) Cell Lysate at 30 ug

Primary: Anti- NGAL (SL41133R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 20 kD

	Observed band size: 25 kD
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