

Rabbit Anti-NALP6 antibody

SL10440R

Product Name NALP6

Chinese Name 富含亮氨酸重复结构域蛋白 6 抗体

Alias

CLR11.4; NACHT, leucine rich repeat and PYD containing 6; NACHT, LRR and PYD containing protein 6; NACHT, LRR and PYD domains-containing protein 6; NALP6_HUMAN; NLR family, pyrin domain containing 6; Nlrp6; Nucleotide binding oligomerization domain, leucine rich repeat and pyrin domain containing 6; PAN3; PYPAF5; PYRIN containing APAF1 like protein 5; PYRIN-containing APAF1-like protein 5.

Research Area

Neurobiology Signal transduction Alzheimer's

Immunogen Species

Rabbit

Clonality

Polyclonal

React Species

Mouse, Rat, (predicted: Human,)

Applications

IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight

98kDa

Cellular localization

The nucleus cytoplasmic The cell membrane

Form

Liquid

Concentration 1mg/ml

immunogen

KLH conjugated synthetic peptide derived from human NALP6: 351-450/892

Lsotype

IgG

Purification

affinity purified by Protein A

Buffer Solution

1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage

Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention

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

PubMed

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NALPs are cytoplasmic proteins that form a subfamily within the larger CATERPILLER protein family. Most short NALPs, such as NALP6, have an N-terminal pyrin (MEFV; MIM 608107) domain (PYD), followed by a NACHT domain, a NACHT-associated domain (NAD), and a C-terminal leucine-rich repeat (LRR) region. The long NALP, NALP1 (MIM 606636), also has a C-terminal extension containing a function to find domain (FIIND) and a caspase recruitment domain (CARD). NALPs are implicated in the activation of proinflammatory caspases (e.g., CASP1; MIM 147678) via their involvement in multiprotein complexes called inflammasomes (Tschopp et al., 2003 [PubMed 12563287]).[supplied by OMIM, Mar 2008]

**Product
Detail**

Function:

May contribute to arginine-vasopressin (AVP)-mediated regulation of renal salt-water balance, glucose and lipid metabolism, apoptosis, and/or cell cycle. Isoform 1 binds arginine-vasopressin but not angiotensin II and acts as an arginine-vasopressin V2 receptor. Isoform 2 binds both arginine-vasopressin and angiotensin II and acts as an angiotensin II/vasopressin receptor. Plays a role in modulating inflammatory responses in the colon to allow recovery from intestinal epithelial damage and limit tumorigenic potential. Protects against the development of colitis by controlling the composition of the gut microbiota by preventing colonization of the colon by harmful, inflammation-inducing bacteria such as Prevotella species. May mediate activation of CASP1 via ASC, promote activation of NF-kappa-B and stimulate cAMP accumulation.

Subunit:

Binds to ASC with its DAPIN domain.

Subcellular Location:

Isoform 1: Cytoplasm. Cell membrane. Nucleus membrane. Isoform 2: Cytoplasm. Cell membrane. Note=Predominantly expressed in the cell membrane.

Tissue Specificity:

Highly expressed in the small and large intestine, kidney and liver.

Similarity:

Belongs to the NLRP family.
Contains 1 DAPIN domain.
Contains 3 LRR (leucine-rich) repeats.
Contains 1 NACHT domain.

SWISS:
P59044

Gene ID:
171389

Database links:

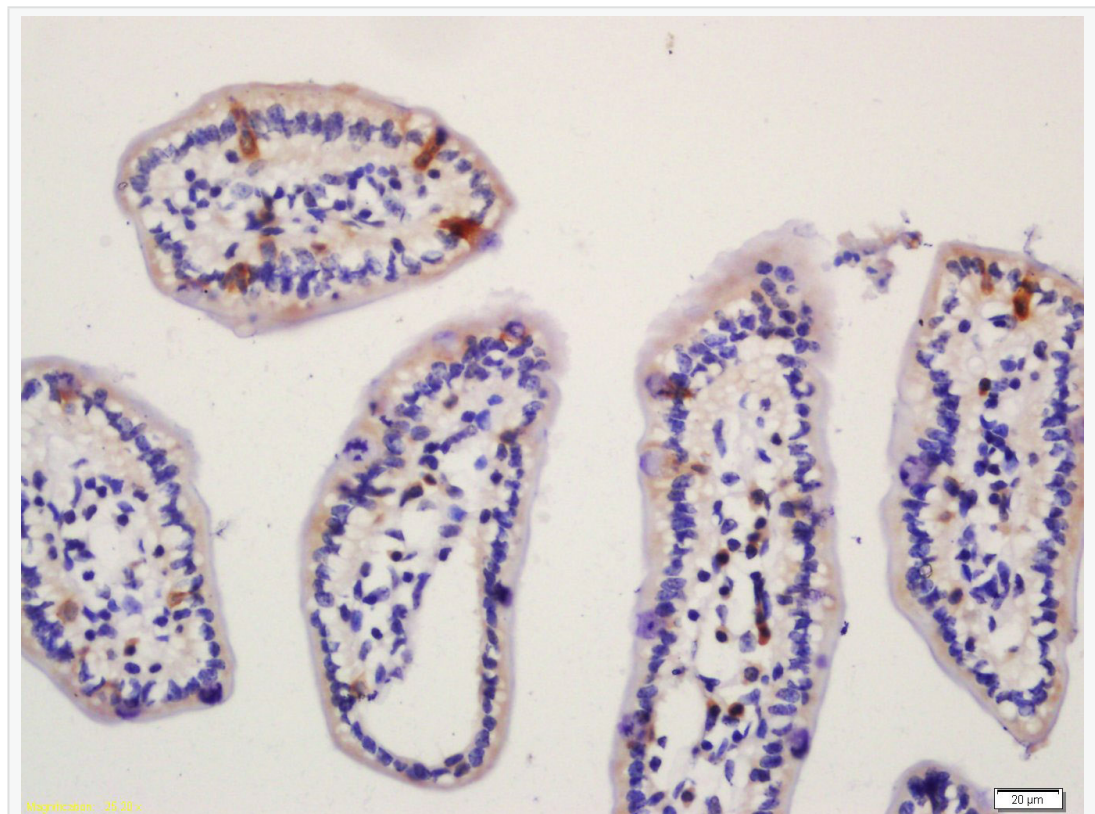
[Entrez Gene: 171389](#) Human

[Omim: 609650](#) Human

[SwissProt: P59044](#) Human

[Unigene: 352611](#) Human

**Product
Picture**

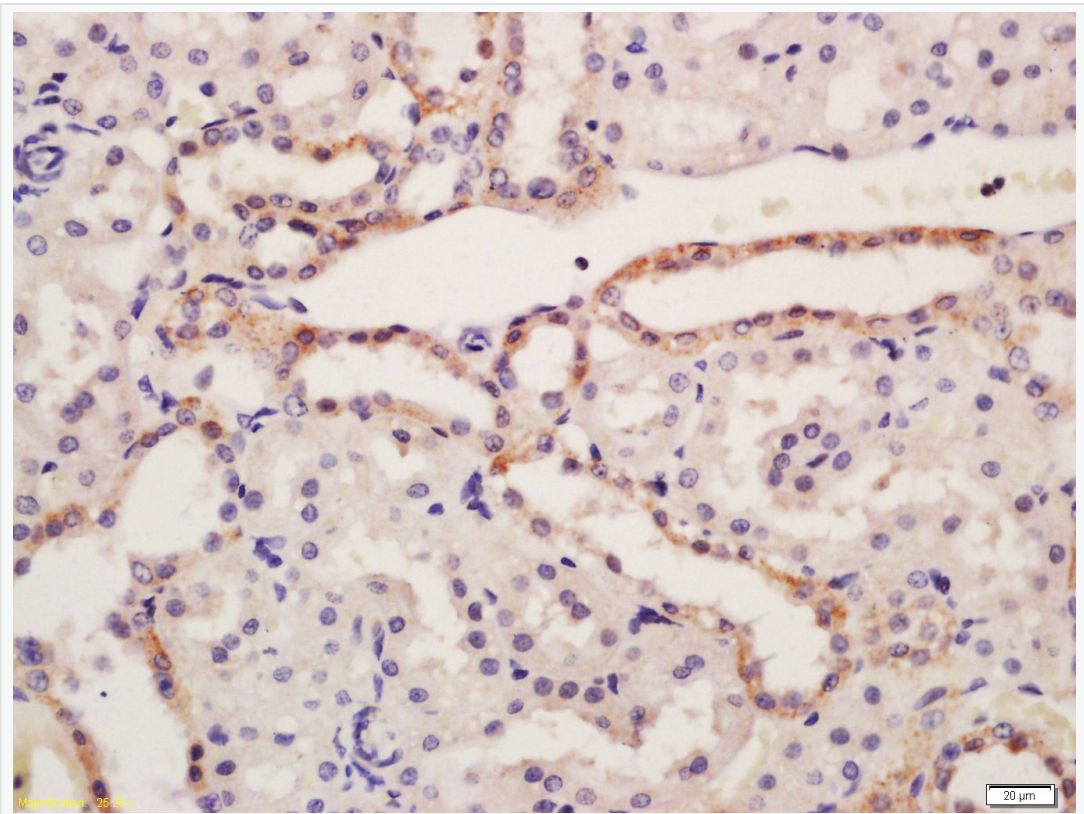


Tissue/cell: mouse intestine tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, 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-NALP6 Polyclonal Antibody, Unconjugated(SL10440R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

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(normal goat serum,C-0005) at 37°C for 20 min;

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