

### **IPAF / NLRC4 Antibody (C-Terminus)**

Rabbit Polyclonal Antibody Catalog # ALS11424

### **Specification**

### IPAF / NLRC4 Antibody (C-Terminus) - Product Information

Application
Primary Accession
Reactivity
Host
Clonality
Calculated MW

Dilution

O9NPP4
Human
Rabbit
Polyclonal
116kDa KDa
WB~~1:1000
IHC-P~~N/A
IF~~1:50~200
ICC~~N/A

WB, IHC-P, IF, ICC

# IPAF / NLRC4 Antibody (C-Terminus) - Additional Information

#### **Gene ID 58484**

### **Other Names**

NLR family CARD domain-containing protein 4, CARD, LRR, and NACHT-containing protein, Clan protein, Caspase recruitment domain-containing protein 12, Ice protease-activating factor, Ipaf, NLRC4, CARD12, CLAN1, CLAN1, IPAF

#### Target/Specificity

synthetic peptide corresponding to amino acids near the C-terminus of human Ipaf

#### **Reconstitution & Storage**

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

#### **Precautions**

IPAF / NLRC4 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

### IPAF / NLRC4 Antibody (C-Terminus) - Protein Information

### Name NLRC4

#### **Function**

Key component of inflammasomes that indirectly senses specific proteins from pathogenic bacteria and fungi and responds by assembling an inflammasome complex that promotes caspase-1 activation, cytokine production and macrophage pyroptosis (PubMed:<a href="http://www.uniprot.org/citations/15107016" target="\_blank">15107016</a>). The NLRC4 inflammasome is activated as part of the innate immune response to a range of intracellular bacteria (By similarity).



## **Cellular Location**

Cytoplasm. Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q3UP24}. Inflammasome

#### **Tissue Location**

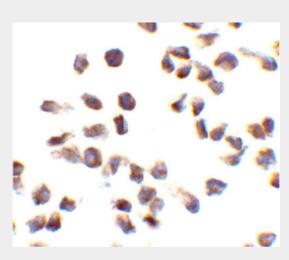
Isoform 2 is expressed ubiquitously, although highly expressed in lung and spleen. Isoform 1 is highly expressed in lung, followed by leukocytes especially monocytes, lymph node, colon, brain, prostate, placenta, spleen, bone marrow and fetal liver. Isoform 4 is only detected in brain

### **IPAF / NLRC4 Antibody (C-Terminus) - Protocols**

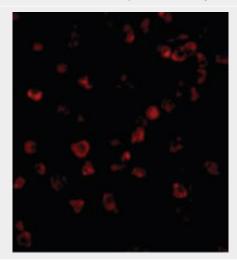
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# IPAF / NLRC4 Antibody (C-Terminus) - Images

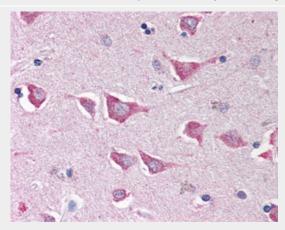


Immunocytochemistry of Ipaf in THP-1 cells with Ipaf antibody at 10 ug/ml.





## Immunofluorescence of Ipaf in THP1 cells with Ipaf antibody at 10 ug/ml.



Anti-NLRC4 antibody IHC of human brain, cortex.

# IPAF / NLRC4 Antibody (C-Terminus) - Background

Key component of inflammasomes that indirectly senses specific proteins from pathogenic bacteria and fungi and responds by assembling an inflammasome complex that promotes caspase-1 activation, cytokine production and macrophage pyroptosis.

# IPAF / NLRC4 Antibody (C-Terminus) - References

Geddes B.J., et al.Biochem. Biophys. Res. Commun. 284:77-82(2001). Damiano J.S., et al.Genomics 75:77-83(2001). Poyet J.-L., et al.J. Biol. Chem. 276:28309-28313(2001). Gingras M., et al.Submitted (MAY-2001) to the EMBL/GenBank/DDBJ databases. Clark H.F., et al.Genome Res. 13:2265-2270(2003).