

Ipaf Antibody
Catalog # ASC10186**Specification**

Ipaf Antibody - Product Information

Application	WB, IF, ICC, E
Primary Accession	Q9NPP4
Other Accession	NP_067032 , 40788015
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	110 kDa KDa
Application Notes	Ipaf polyclonal antibody can be used for the detection of Ipaf by Western blot at 1 and 2 µg/mL. A 110 kDa band can be detected. Antibody can also be used for immunocytochemistry starting at 10 µg/mL. For immunofluorescence start at 10 µg/mL.

Ipaf Antibody - Additional InformationGene ID **58484****Other Names**

Ipaf Antibody: CLAN, IPAF, CLAN1, CLANA, CLANB, CLANC, CLAND, CARD12, CLR2.1, CLAN, UNQ6189/PRO20215, NLR family CARD domain-containing protein 4, CARD, LRR, and NACHT-containing protein, Clan protein, NLR family, CARD domain containing 4

Target/Specificity

NLRC4;

Reconstitution & Storage

Ipaf antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions

Ipaf Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Ipaf Antibody - 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:15107016). 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

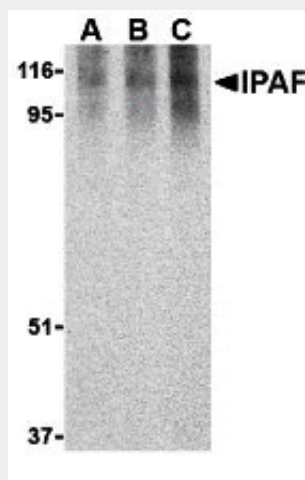
Isoform 2 is expressed ubiquitously, although highly expressed in lung and spleen. Isoform 1 is highly expressed in lung, followed by leukocytes especially monocytes, lymph node, colon, brain, prostate, placenta, spleen, bone marrow and fetal liver. Isoform 4 is only detected in brain

Ipaf Antibody - Protocols

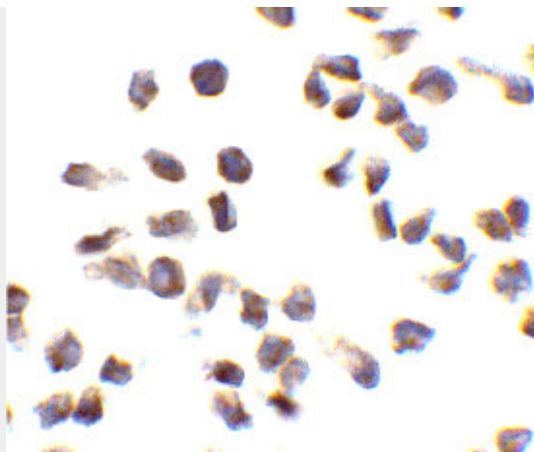
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

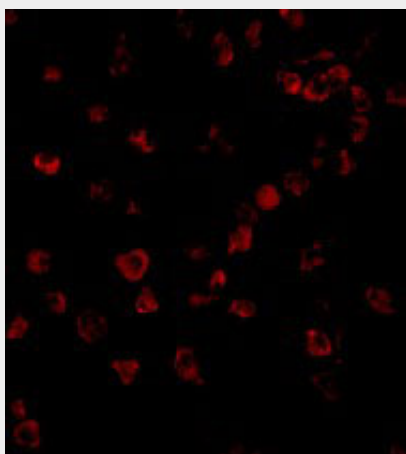
Ipaf Antibody - Images



Western blot analysis of Ipaf in human PBL lysate with Ipaf antibody at 0.5 (lane A), 1 (lane B), and 2 (lane C) $\mu\text{g/mL}$, respectively.



Immunocytochemistry of Ipaf in THP-1 cells with Ipaf antibody at 10 µg/mL.



Immunofluorescence of Ipaf in THP1 cells with Ipaf antibody at 10 µg/mL.

Ipaf Antibody - Background

Ipaf Antibody: Apoptosis is related to many diseases and induced by a family of cell death receptors and their ligands. Cell death signals are transduced by death domain containing adaptor molecules and proteases including several members of the caspase family. Another family of proteins that functions as a critical regulator of apoptosis and NFκ signaling pathways is the CED-4/Apaf-1 (apoptosis protein activating factor-1) protein family. Ipaf (ICE protease activating factor) is a CED-4/Apaf-1 family member that activates caspase-1/ICE and can induce apoptosis in human cells in a caspase-1 dependent manner. Ipaf and caspase-1 are thought to interact with each other through the association of the Ipaf amino-terminal CARD (caspase recruitment domain) and amino-terminal CARD of caspase-1.

Ipaf Antibody - References

Li P, Nijhawan D, Budihardjo I, et al. Cytochrome c and dATP-dependent formation of Apaf-1/caspase-9 complex initiates an apoptotic protease cascade. *Cell* 1997; 91:479-89.
Poyet J-L, Srinivaula SM, Tnani M, et al. Identification of Ipaf, a human caspase-1-activating protein related to Apaf-1. *J. Biol. Chem.* 2001; 276:28309-13.
Geddes BJ, Wang L, Huang WJ, et al. Human CARD12 is a novel CED4/Apaf-1 family member that induces apoptosis. *Biochem. Biophys. Res. Commun.* 2001; 284:77-82.