

Ipaf Antibody

Catalog # ASC10186

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	116159
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	Ipaf polyclonal antibody can be used for the detection of Ipaf by Western blot at 1 and 2 μ g/mL. A 110 kDa band can be detected. Antibody can also be used for immunocytochemistry starting at 10 μ g/mL. For immunofluorescence start at 10 μ g/mL.

Additional Information

Gene 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.

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

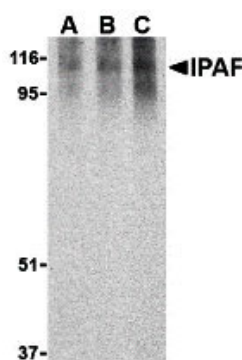
Background

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 NF κ B 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.

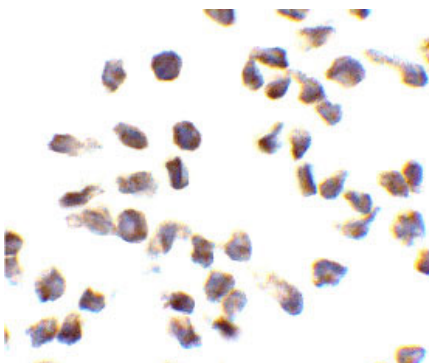
References

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.

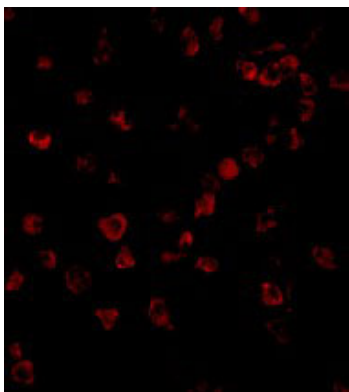
Images



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



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



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.