

## 20-1066: Polyclonal antibody to CARD12 (IPAF/CIAN)

<b>Clonality :</b>	Polyclonal
<b>Application :</b>	WB,IHC,IP
<b>Reactivity :</b>	Human,Mouse
<b>Gene :</b>	NLRC4
<b>Gene ID :</b>	58484
<b>Uniprot ID :</b>	Q9NPP4
<b>Format :</b>	Sera
<b>Alternative Name :</b>	NLRC4,CARD12,CLAN,CLAN1,IPAF,UNQ6189/PRO20215
<b>Isotype :</b>	Rabbit IgG
<b>Immunogen Information :</b>	A synthetic peptide of IPAF/CIAN/CARD12 (amino acids 637-654 EEAPETYIPSRVSLFFN) was used as immunogen for this antibody

### Description

Ipaf (also known as Clan/CARD12) is a CARD domain containing protein. In general CARD proteins are implicated in host defense against infection, environmental stress or cellular damage. CARD domains are found in the N-terminal pro-domains of certain caspases, a family of apoptotic and pro-inflammatory proteases, as well as in a diversity of other proteins including Ipaf/Clan/CARD12. There are at least three major signaling pathways in which CARD proteins act: (1) Regulation of caspase activation in the context of apoptosis (2) Regulation of caspase activation in the context of inflammation (3) Regulation of NF- $\kappa$ B activation in the context of innate or adaptive immune responses. As there is significant crosstalk between pathways that lead to caspase-mediated apoptosis or inflammation and pathways that result in NF- $\kappa$ B activation, it is logical that similar protein modules such as CARD domains are found repeatedly in proteins from all three pathways. Ipaf plays a role in regulating caspase-1 activity, which in turn mediates the maturation of inflammatory cytokines IL-1 $\beta$  and IL-18. Ipaf also interacts with the pro-apoptotic adaptor protein ASC and co-expression of Ipaf with ASC has been shown to induce NF- $\kappa$ B activation and apoptosis.

### Product Info

<b>Amount :</b>	50 $\mu$ l
<b>Content :</b>	50 $\mu$ l sera
<b>Storage condition :</b>	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

### Application Note

WB: 1:1000-1:2000, IHC (paraffin): 1:1000-1:5000, IHC (frozen): Users should optimize, IP: 1:50-1:200