

Product datasheet for TA336853

CARD12 (NLRC4) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, IHC
Recommended Dilution:	Immunohistochemistry: 1:400, Immunocytochemistry/ Immunofluorescence: 1:100, Immunohistochemistry-Paraffin: 1:200
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A synthetic peptide made to a C-terminal portion of the human CARD12 protein (between residues 950-1015) [UniProt Q9NPP4]
Formulation:	PBS with 30% Glycerol, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	NLR family, CARD domain containing 4
Database Link:	NP_067032 Entrez Gene 268973 Mouse Entrez Gene 58484 Human Q9NPP4



Background:

CARD12, also known as CLAN, IPAF and CLAN1 is a member of the CED4 family of proteins. The CED4/Apaf-1 proteins are critical regulators of apoptosis and NF-kappaB signaling pathways, and CARD12 is no exception. CARD12 has been implicated in coordination of downstream activation of both apoptotic and inflammatory signaling pathways (PMID: 11374873). Additionally, CARD12 has shown to coprecipitate with caspase 1, an enzyme that participates in both the signaling of apoptosis and cytokine processing, further demonstrating its integral role in programmed cell death (PMID: 11374873). As part of the nucleotide-binding site and leucine-rich repeat (NBS-LRR) proteins, CARD12 is known to be an important regulator of caspase-1 activation via an ATP/dATP nucleotide-binding pocket (PMID: 15882992). CARD12 has four known isoforms. Isoform 1 is highly expressed in lung, followed by leukocytes (especially monocytes), lymph node, colon, brain, prostate, placenta, spleen, bone marrow and fetal liver. Although it is expressed ubiquitously, Isoform 2 is more prominent at the highest levels in lung and spleen. Isoform 4 can only be found in the brain.

Synonyms:

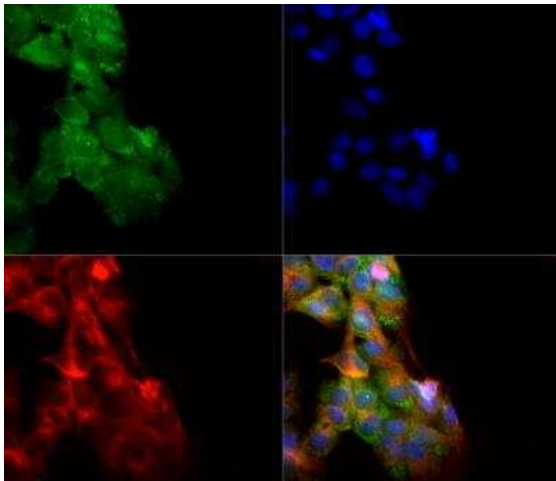
AIFEC; CARD12; CLAN; CLAN1; CLANA; CLANB; CLANC; CLAND; CLR2.1; FCAS4; IPAF

Note:

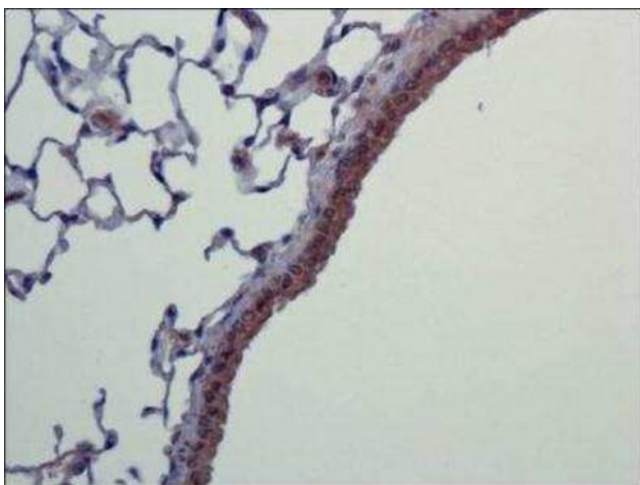
This CARD12 antibody is useful for Immunocytochemistry/Immunofluorescence and IHC-paraffin embedded sections. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended.

Protein Pathways:

NOD-like receptor signaling pathway

Product images:

Immunocytochemistry/Immunofluorescence: CARD12 Antibody TA336853 - Tested in HepG2 cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red).



Immunohistochemistry: CARD12 Antibody
TA336853 - Analysis of CARD12 in mouse lung
using DAB with hematoxylin counterstain.