10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CARD14 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58588

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q9BXL6
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	113270
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CARD14
Epitope Specificity	1-100/1004
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Isoform 1: Cytoplasm.Isoform 2: Cytoplasm.Isoform 3: Cytoplasm.
SIMILARITY	Contains 1 CARD domain.Contains 1 guanylate kinase-like domain. Contains 1 PDZ (DHR) domain.
SUBUNIT	Interacts with BCL10 by CARD-CARD interaction. Interacts with TRAF2, TRAF3 and TRAF6.
DISEASE	Psoriasis 2 (PSORS2) [MIM:602723]: A common, chronic inflammatory disease of the skin with multifactorial etiology. It is characterized by red, scaly plaques usually found on the scalp, elbows and knees. These lesions are caused by abnormal keratinocyte proliferation and infiltration of inflammatory cells into the dermis and epidermis. Note=Disease susceptibility is associated with variations affecting the gene represented in this entry.Pityriasis rubra pilaris (PRP) [MIM:173200]: A rare, papulosquamous skin disease characterized by the appearance of keratotic follicular papules, well-demarcated salmon-colored erythematous plaques covered with fine powdery scales interspersed with distinct islands of uninvolved skin, and palmoplantar keratoderma. Most cases are sporadic. The rare familial cases show autosomal dominant inheritance with incomplete penetrance and variable expression. Familial PRP usually presents at birth or appears during the first years of life and runs a chronic course. It is characterized by prominent follicular hyperkeratosis, diffuse palmoplantar keratoderma, and erythema. Note=The disease is caused by mutations affecting the gene represented in this entry.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene belongs to the membrane-associated guanylate kinase (MAGUK) family, a class of proteins that functions as molecular scaffolds for the assembly of multiprotein complexes at specialized regions of the plasma membrane. This protein is also a member of the CARD protein family, which is defined by carrying a characteristic caspase-associated recruitment domain (CARD). This protein shares a similar domain structure with CARD11 protein. The CARD domains of both proteins

have been shown to specifically interact with BCL10, a protein known to function as a positive regulator of cell apoptosis and NF-kappaB activation. When expressed in cells, this protein activated NF-kappaB and induced the phosphorylation of BCL10. Two alternatively spliced variants of this gene encoding distinct isoforms have been reported.

Additional Information

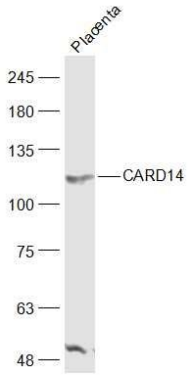
Gene ID	79092
Other Names	Caspase recruitment domain-containing protein 14, CARD-containing MAGUK protein 2, Carma 2, CARD14, CARMA2
Target/Specificity	Isoform 1 is detected in placenta and epidermal keratinocytes. Isoform 2 is detected in leukocytes and fetal brain.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

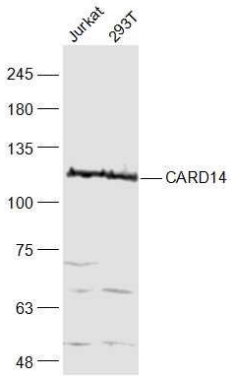
Name	CARD14
Synonyms	CARMA2
Function	Acts as a scaffolding protein that can activate the inflammatory transcription factor NF-kappa-B and p38/JNK MAP kinase signaling pathways. Forms a signaling complex with BCL10 and MALT1, and activates MALT1 proteolytic activity and inflammatory gene expression. MALT1 is indispensable for CARD14-induced activation of NF-kappa-B and p38/JNK MAP kinases (PubMed:11278692, PubMed:21302310, PubMed:27071417, PubMed:27113748). May play a role in signaling mediated by TRAF2, TRAF3 and TRAF6 and protects cells against apoptosis.
Cellular Location	[Isoform 1]: Cytoplasm [Isoform 3]: Cytoplasm
Tissue Location	Isoform 1 is detected in placenta and epidermal keratinocytes (PubMed:22521418). Isoform 2 is detected in leukocytes and fetal brain (PubMed:22521418).

Images

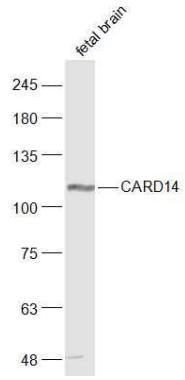
Sample:
Placenta (Mouse) Lysate at 40 ug
Primary: Anti-CARD14 (AP58588) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 113 kD



Observed band size: 113 kD



Sample:
Jurkat(Human) Cell Lysate at 30 ug
293T(Human) Cell Lysate at 30 ug
Primary: Anti-CARD14 (AP58588) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 113 kD
Observed band size: 113 kD



Sample:
Fetal brain (Mouse) Lysate at 40 ug
Primary: Anti-CARD14 (AP58588) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 113 kD
Observed band size: 113 kD