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

Specification

CARD14 Polyclonal Antibody - 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	**113 KDa**
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.

CARD14 Polyclonal Antibody - 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~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ 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 ℃.

CARD14 Polyclonal Antibody - 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

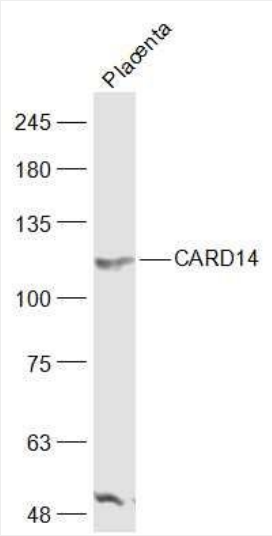
Tissue Location
Isoform 1 is detected in placenta and epidermal keratinocytes (PubMed:22521418). Isoform 2 is detected in leukocytes and fetal brain (PubMed:22521418).

CARD14 Polyclonal 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 Cytomety
- Cell Culture

CARD14 Polyclonal Antibody - Images



Sample:
Placenta (Mouse) Lysate at 40 ug

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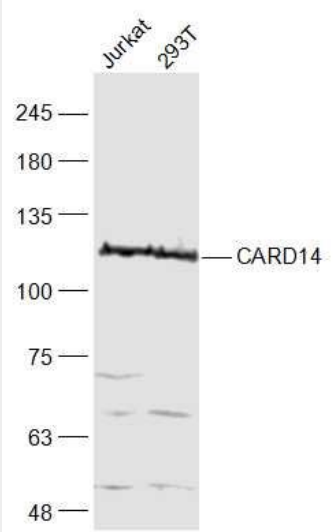
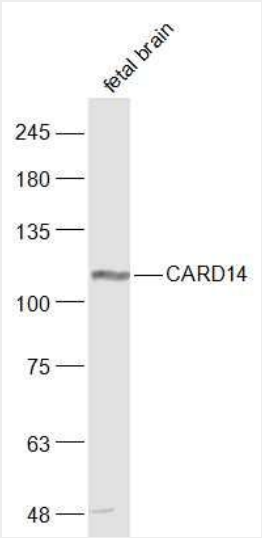
Primary: Anti-CARD14 (bs-7083R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 113 kD
Observed band size: 113 kD



Sample:
Jurkat(Human) Cell Lysate at 30 ug
293T(Human) Cell Lysate at 30 ug
Primary: Anti-CARD14 (bs-7083R) 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 (bs-7083R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 113 kD
Observed band size: 113 kD