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# Anti-CARD14 Antibody

Catalog # AP53785

## Product Information

| | |
|---|---|
| **Application** | WB, IHC, IF/IC |
| **Primary Accession** | Q9BXL6 |
| **Reactivity** | Human, Mouse, Rat |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 113270 |

## Additional Information

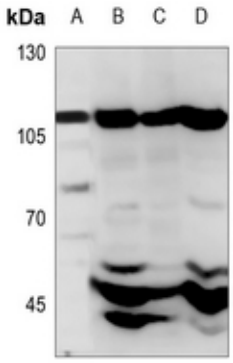
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|---|---|
| **Gene ID** | 79092 |
| **Other Names** | CARMA2; Caspase recruitment domain-containing protein 14; CARD-containing MAGUK protein 2; Carma 2 |
| **Target/Specificity** | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CARD14. The exact sequence is proprietary. |
| **Dilution** | WB~~1/500 - 1/1000 IHC~~1/50 - 1/200 IF/IC~~N/A |
| **Format** | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

## Protein Information

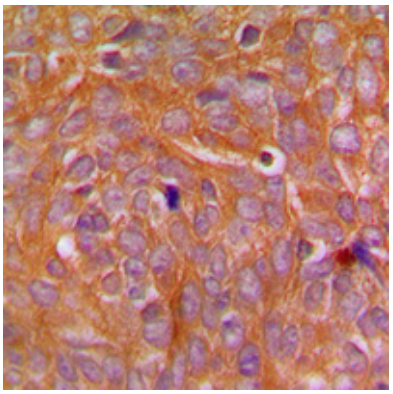
| | |
|---|---|
| **Name** | CARD14 |
| **Synonyms** | CARMA2 |
| **Function** | Acts as a scaffolding protein that can activate the inflammatory transcription factor NF-kappa-B and p38/JNK MAP kinase signaling pathways. Forms a signaling complex with BCL10 and MALT1, and activates MALT1 proteolytic 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).

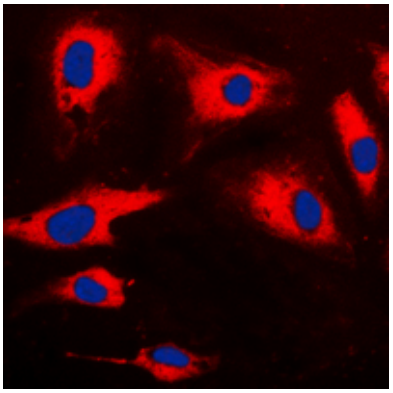
## Images



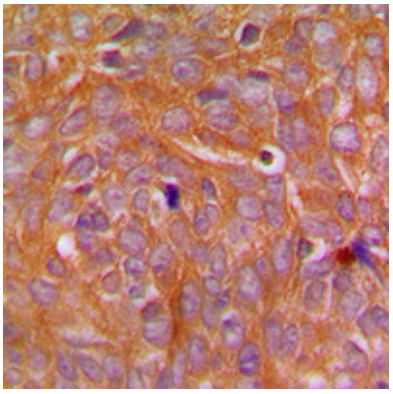

Western blot analysis of CARD14 expression in A549 (A), mouse liver (B), mouse spleen (C), rat liver (D) whole cell lysates. (Predicted band size: 113 kD; Observed band size: 113 kD)



Immunohistochemical analysis of CARD14 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of CARD14 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).



Immunohistochemical analysis of CARD14 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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