

# Recombinant Human CARD11 Protein, Myc/DDK-tagged

**Cat. No.** CARD11-01H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified recombinant protein of Homo sapiens caspase recruitment domain family, member 11 (CARD11) with a C-Myc/DDK tag was expressed in HEK293T.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | <p>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 has a domain structure similar to that of CARD14 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.</p> |
| <b>Molecular Mass</b>   | 133.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>AA Sequence</b>      | MPGGGPEMDDYMETLKDEEDALWENVECNRHMLSRYPINPAKLTPYLRQCKVIDEQ<br>DEDEVLNAPMLPSKINRAGRLLDILHTKGQRGYVVFLESLEFYYPELYKLVGTGKEPTR<br>RFSTIVVEEGHEGLTHFLMNEVIKLQQQMKAKDLQRCELLARLRQLEDEKKQMTLTR<br>VELLTFQERYYYKMKEERDSYNDELVKVKDDNYNLAMRYAQLSEEKNMAVMRSRDL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

 Tel: 1-631-559-9269    1-516-512-3133

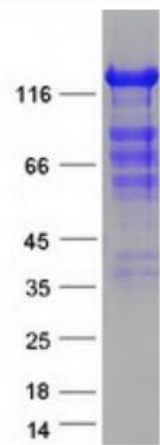
 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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 WTIQRCSGPVTLHYKVNHEGYRKL VKDMEDGLITSGDSFYIRLNLNISSQLDACTMS  
 LKCD DVVHVRDTMYQDRHEWLCARVDPFTDHDLDMG TIPSYSRAQQLLVKLQRL  
 MHRGSREEVDGTHHTLRALRNTLQPEEALSTSDPRVSPRLSRASFLFGQLLQFVSR  
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 SLVRAFYCERRRPVLFTPTVLAKTLVQRL LNSSGGAMEFTICKSDIVTRDEFLRRQKTE  
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 KRFRKLLPRPETEEEF LRVCR LKEKELEALPCLYATVEPDMWGSVEELLRVVKDKIG  
 EEQRKTIWVDEDQLSGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

|                       |                                                                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                   |
| <b>Stability</b>      | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>        | Store at -80 centigrade.                                                                                                                      |
| <b>Concentration</b>  | >50 µg/mL as determined by microplate BCA method                                                                                              |
| <b>Storage Buffer</b> | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol                                                                                          |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                               |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CARD11 caspase recruitment domain family member 11 [ Homo sapiens (human) ]                                                                                                                                                   |
| <b>Official Symbol</b> | CARD11 caspase recruitment domain family member 11 [ Homo sapiens (human) ]                                                                                                                                                   |
| <b>Synonyms</b>        | CARD11; caspase recruitment domain family member 11; PPBL; BENTA; BIMP3; IMD11; CARMA1; IMD11A; caspase recruitment domain-containing protein 11; CARD-containing MAGUK protein 1; bcl10-interacting maguk protein 3; carma 1 |
| <b>Gene ID</b>         | 84433                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>     | NM_032415                                                                                                                                                                                                                     |
| <b>Protein Refseq</b>  | NP_115791                                                                                                                                                                                                                     |
| <b>MIM</b>             | 607210                                                                                                                                                                                                                        |
| <b>UniProt ID</b>      | Q9BXL7                                                                                                                                                                                                                        |
| <b>SDS-PAGE</b>        |  <p>Coomassie blue staining of purified CARD11 protein. The protein was produced</p>                                                      |

from HEK293T cells transfected with CARD11 cDNA clone using MegaTran 2.0.

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