

Recombinant Human CARD8, GST-tagged

Cat. No. CARD8-10721H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CARD8 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	10-341a.a.
Description	Breakdown products of phosphoinositides are ubiquitous second messengers that function downstream of many G protein-coupled receptors and tyrosine kinases regulating cell growth, calcium metabolism, and protein kinase C activity. This gene encodes an enzyme which regulates the amount of phosphatidylinositol available for signaling by catalyzing the conversion of phosphatidic acid to CDP-diacylglycerol. This enzyme is an integral membrane protein localized to two subcellular domains, the matrix side of the inner mitochondrial membrane where it is thought to be involved in the synthesis of phosphatidylglycerol and cardiolipin and the cytoplasmic side of the endoplasmic reticulum where it functions in phosphatidylinositol biosynthesis. Two genes encoding this enzyme have been identified in humans, one mapping to human chromosome 4q21 and a second to 20p13.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM

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GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	CARD8 caspase recruitment domain family, member 8 [Homo sapiens]
Official Symbol	CARD8
Synonyms	CARD8; caspase recruitment domain family, member 8; caspase recruitment domain-containing protein 8; CARDINAL; Dakar; KIAA0955; NDPP; TUCAN; apoptotic protein NDPP1; CARD inhibitor of NF-kappaB-activating ligands; tumor up-regulated CARD-containing antagonist of CASP9; tumor up-regulated CARD-containing antagonist of caspase nine; DACAR; DAKAR; NDPP1; FLJ18119; FLJ18121; MGC57162; DKFZp779L0366;
Gene ID	22900
mRNA Refseq	NM_001184900
Protein Refseq	NP_001171829
MIM	609051
UniProt ID	Q9Y2G2
Chromosome Location	19q13.33
Pathway	NOD-like receptor signaling pathway, organism-specific biosystem; NOD-like receptor signaling pathway, conserved biosystem;

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Function

NACHT domain binding; cysteine-type endopeptidase activator activity involved in apoptotic process; protein binding; protein homodimerization activity;

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