



## Product Information

### Anti-CARD9

Developed in Rabbit

Product Number **C 7862**

#### Product Description

Anti-CARD9 (caspase recruitment domain) is developed in rabbit using a synthetic peptide (DRENTTGSDNTDTEGS) corresponding to amino acids 521-536 of human CARD9<sup>1</sup> as immunogen. The sequence differs from rat by two amino acids.<sup>1</sup> This antibody is purified by immunoaffinity chromatography.

Anti-CARD9 recognizes human CARD9 (approximately 59 kDa) by immunoblotting.

Apoptosis is related to many diseases and stages of development. Cell death signals are transduced by death domain (DD), death effector domain (DED), and caspase recruitment domain (CARD) containing molecules. CARD containing proteins include some caspases, Apaf-1, CARD4, IAPs, RICK, ARC, RAIDD, Bcl-10, and ASC.

A novel CARD-containing protein has been identified and designated CARD9, which interacts with the CARD activation domain of Bcl-10.<sup>1</sup> CARD9 associates with Bcl-10 and forms a complex within cells. It induces apoptosis and activates NF- $\kappa$ B. CARD9 is an upstream activator of Bcl-10 and NF- $\kappa$ B signaling.

#### Reagent

Anti-CARD9 is supplied as approximately 0.5 mg/ml of antiserum in phosphate buffered saline containing 0.02% sodium azide.

#### Precautions and Disclaimer

Due to the sodium azide content, a material safety data sheet (MSDS) has been sent to the attention of the safety officer at your institution. Consult the MSDS for information regarding hazards and safe handling practices.

#### Storage/Stability

For continuous use, store at 2-8 °C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing is not recommended. Do not store in a "frost-free" freezer. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

#### Product Profile

For immunoblotting, the recommended working antibody concentration is 0.5-1  $\mu$ g/ml using human PC-3 and MDA-MB-361 cell lysates.

Note: In order to obtain the best results and assay sensitivities in various techniques and preparations, we recommend determining optimal working dilutions by titration.

#### References

1. Bertin, J., et al., CARD9 is a novel caspase recruitment domain-containing protein that interacts with BCL10/CLAP and activates NF- $\kappa$ B. *J. Biol. Chem.*, **275**, 41082-41086 (2000).

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