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#4435 Store at -20C

CARD11 (1D12) Rabbit mAb

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 130	Source/Isotype: Rabbit IgG	UniProt ID: #Q9BXL7	Entrez-Gene Id: 84433
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Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

CARD11 (1D12) Rabbit mAb detects endogenous levels of total CARD11 protein.

Species predicted to react based on 100% sequence homology

Rat, Monkey

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding threonine 175 of CARD11.

Background

CARD11/Carma1/Bimp3 belongs to the MAGUK (membrane-associated guanylate kinase) family that typically function as molecular scaffolds in the assembly of multiprotein complexes (1,2). MAGUK family members contain an SH3 domain, a PDZ domain and a GuK domain homologous to guanylate kinase. In addition, CARD11 contains an amino-terminal CARD domain (caspase recruitment domain). This domain plays an important role in forming interactions with a number of proteins containing CARD domains that are involved in regulating apoptosis and NF-κB activation. CARD11 is predominately expressed in lymphocytes (1,2) and associates with the CARD domain of Bcl10. When overexpressed, CARD11 leads to the phosphorylation of Bcl10 and activation of NF-κB (1,2). CARD11 is constitutively associated with lipid rafts and is thought to function by recruiting Bcl10 and MALT1 and triggering the phosphorylation of IKKs (3,4). Several studies using the genetic disruption of CARD11 or dominant-negative mutations have demonstrated that it plays a critical role in NF-κB activation and lymphocyte signaling (4-7).

Background References

- Bertin, J. et al. (2001) *J. Biol. Chem.* 276, 11877-11882.
- Gaide, O. et al. (2001) *FEBS Lett.* 496, 121-127.
- Stilo, R. et al. (2004) *J. Biol. Chem.* 279, 34323-34331.
- Wang, D. et al. (2002) *Nat. Immunol.* 3, 830-835.
- Jun, J.E. et al. (2003) *Immunity* 18, 751-762.
- Hara, H. et al. (2003) *Immunity* 18, 763-775.
- Gaide, O. et al. (2002) *Nat. Immunol.* 3, 836-843.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse

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