

CRMP2 monoclonal antibody

Catalog: MB67115

Host: Mouse

Reactivity: Human, Mouse

BackGround:

Collapsin Response Mediator Protein-2 (CRMP-2) is expressed at high levels in the developing nervous system and plays a critical role in axonal outgrowth by specifying axon/dendrite fate and establishing neuronal polarity. CRMP-2 enhances axon elongation and branching by binding to tubulin heterodimers to promote microtubule assembly. GSK-3 β inactivates CRMP-2 by phosphorylating it at Thr514. CRMP-2 is primed following phosphorylation at Ser522 by CDK5 and at Thr518 by GSK-3 β . Phosphorylation of CRMP-2, which decreases tubulin binding ability, can be inhibited by NT-3 and BDNF through the PI3 kinase/Akt pathway. CRMP-2 also mediates semaphorin-induced growth cone collapse. Hyperphosphorylation of CRMP-2 is found in Alzheimer disease plaques with concurrent elevated GSK-3 β activity in these patients.

Product:

Mouse IgG2b. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 58, 62 kDa

Swiss-Prot:

Q16555

Purification&Purity:

This antibody is purified through a protein G column.

Applications:

WB (1/500 - 1/4000)

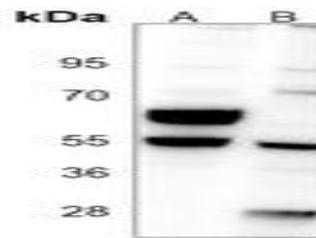
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of CRMP2 protein.

DATA:



Western blot analysis of CRMP2 expression in NIH3T3 (A), mouse brain (B) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

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