

Code No. 11096

**Anti-Human  
CRMP-2 (C4G) Mouse IgG MoAb**Volume : 100 µg

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**Introduction** : CRMP-2 (Collapsin response mediator protein-2) is highly expressed in the developing nervous system and identified as protein involved in Semaphorin 3A (Collapsin-1) intracellular signaling. It is reported that the mutation of unc-33, a *Caenorhabditis elegans* homolog of CRMP-2, results in abnormal axon termination. CRMP-2 is most ubiquitously expressed in the nervous system of CRMP-2 family, and expressed in most nerve cell at the early stage of differentiation, and further, in cone cell of hippocampus, in Purkinje cell of cerebellum and sensory neuron of dorsal root ganglion (DRG) at maturation stage. This protein is localized in axon, growth cone and cell body.

**Antigen** : Recombinant Human CRMP-2

**Source** : Mouse-Mouse hybridoma  
(PAI x BALB/c mouse lymph nodes)

**Clone** : C4G

**Subclass** : IgG<sub>1</sub>

**Purification** : Affinity purified with Protein A

**Form** : Lyophilized product from PBS containing 1 % BSA and 0.05 % NaN<sub>3</sub>

**How to use** : 1.0 mL deionized water will be added to the product, then its concentration comes to 100 µg/mL

**Stability** : Lyophilized product, 5 years at 2 - 8 °C  
: Solution, 2 years at -20 °C

**Application** : This antibody can be used for western blotting in concentration of 1 - 5 µg/mL, however, the dilution rate should be optimized by each laboratories.  
: This antibody can be used for immunoprecipitation in concentration of 5 µg/mL.

**Specificity** : Cross-reacts with Mouse and Rat

**Reference** : 1. Gu Y, Hamajima N, Ihara Y. Neurofibrillary tangle-associated collapsin response mediator protein-2 (CRMP-2) is highly phosphorylated on Thr-509, Ser-518, and Ser-522. *Biochemistry*. 2000 Apr 18;39(15):4267-75.  
2. Patrakitkomjorn S, Kobayashi D, Morikawa T, Wilson MM, Tsubota N, Irie A, Ozawa T, Aoki M, Arimura N, Kaibuchi K, Saya H, Araki N. NF1 tumor suppressor, neurofibromin, regulates the neuronal differentiation of PC12 cells via its associating protein, collapsin response mediator protein-2. *J Biol Chem*. 2008 Apr 4;283(14):9399-413.

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Immuno-Biological Laboratories, Inc.  
8201 Central Ave NE, Suite P  
Minneapolis, MN 55432

Toll-Free: 888-523-1246  
Email: [info@IBL-America.com](mailto:info@IBL-America.com)  
Web: [www.IBL-America.com](http://www.IBL-America.com)