

CRMP2 Phospho-Regulation Antibody Sampler Kit | CRMP2 antibody sampler kit

CRMP2 Phospho-Regulation

CATALOG # AAA71573	REACTIVITY Human, Rat, Mouse	APPLICATIONS Immunoprecipitation, Immunocytochemistry, ELISA, Western Blot
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PRODUCT SYNONYMS

CRMP2 Phospho-Regulation; CRMP2 antibody sampler kit

PRODUCT SPECIFICATIONS

Reactivity	Human, Rat, Mouse
Form/Format	Rabbit polyclonal antibodies are supplied in phosphate-buffered saline (PBS), 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide. The peptides are supplied in PBS and 0.05% sodium azide.
Applicable Applications for CRMP2 antibody sampler kit	IP (Immunoprecipitation), ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Preparation and Storage	Store all at -20 degree C. Stable for 1 year.

ADDITIONAL INFORMATION

Related Product Information for CRMP2 antibody sampler kit	Background: CRMP2 (CRMP-62, TOAD-64, DRP-2) is a microtubule associated protein involved in neuron development and axon pathfinding. CRMP2 binds to tubulin heterodimers and promotes microtubule assembly. The overexpression of CRMP2 facilitates the rate of axonal growth, whereas the mutated form that lacks activity toward the microtubule assembly inhibits axonal growth in a dominant negative manner. Phosphorylation of CRMP2 regulates its activity and this type of regulation has been implicated in axon growth cone collapse induced by several repulsive cues. Cdk5 and GSK3 phosphorylation occurs downstream of the repulsive cue, Sema-3A. Several residues in CRMP2 are phosphorylated by GSK3 (Ser-518, Thr-514, and Thr-509), and a priming site (Ser-522). These sites are conserved in human CRMP1 and CRMP4, but not in CRMP3 or CRMP5. The priming site is also phosphorylated by Cdk5. In contrast, ROCK phosphorylates Thr-555 leading to LPA, MAG, or Ephrin-A5 mediated growth cone collapse. Thus, CRMP2 phosphorylation status may be a critical element of pathways that control axon pathfinding.
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-mouse-rat-antibody-sampler-kits/crmp2-phospho-regulation/71573>