e at -20C	CRMP-2 (D8L6V) Rabbit mAb		Cell Signaling TECHNOLOGY*
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP, IHC-P, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 60-80	Source/Isotype: Rabbit IgG	UniProt ID: #Q16555	Entrez-Gene Id: 1808		
Product Usage Information	Ap j We	plication stern Blotting			D 1:	ilution 1000		
	Imn	nunoprecipitation			1:	50		
	Imn	Immunohistochemistry (Paraffin) 1:50				50 - 1:200		
	Imn	Immunofluorescence (Immunocytochemistry) 1:800						
Storage	Supj 0.02	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		1P-2 (D8L6V) Rabbi	it mAb recognize	s endogenous levels of	total CRMP-2 protein.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding lle546 of human CRMP-2 protein.						
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 (1,2). CRMP-2 enhances axon elongation and branching by binding to tubulin heterodimers to promote microtubule assembly (3). GSK-3β inactivates CRMP-2 by phosphorylating it at Thr514. CRMP-2 is primed following phosphorylation at Ser522 by CDK5 and at Thr518 by GSK-3β (2). Phosphorylation of CRMP-2, which decreases tubulin binding ability, can be inhibited by NT-3 and BDNF through the PI3 kinase/Akt pathway (2). CRMP-2 also mediates semaphorin-induced growth cone collapse (4). Hyperphosphorylation of CRMP-2 is found in Alzheimer disease plaques with concurrent elevated GSK-3β activity in these patients (5).						
Background Refere	nces 1. Gi 2. Yo 3. Fu 4. Gi 5. Co	 Gu, Y. and Ihara, Y. (2000) J Biol Chem 275, 17917-20. Yoshimura, T. et al. (2005) Cell 120, 137-49. Fukata, Y. et al. (2002) Nat Cell Biol 4, 583-91. Goshima, Y. et al. (1995) Nature 376, 509-14. Cole, A.R. et al. (2004) J Biol Chem 279, 50176-80. 						
Species Reactivity	Spec	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 TE 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key		WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivity Ke	ey H: hu X: Xe GP: 0	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected						
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Limited Uses								

CRMP-2 (D8L6V) Rabbit mAb (#35672) Datasheet Without Images Cell Signaling Technology

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