4/18/24, 10:34 AM Revision 4

e at -20C	Caspr (D8I3V) Rabbit mAb		Cell Signaling	
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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#		3 Trask Lane Danvers Ma	ssachusetts 01923 USA	

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

Applications: WB, IP, IF-F	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 190	Source/Isotype: Rabbit IgG	UniProt ID: #P78357	Entrez-Gene Id: 8506		
Product Usage	Ар	plication			Di	lution		
Information	We	estern Blotting			1::	1000		
	Imr	munoprecipitation			1:5	50		
	Imr	munofluorescence (F	Frozen)		1:8	800		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				erol and less than		
	For	a carrier free (BSA a	and azide free) v	ersion of this product se	e product #59964.			
Specificity / Sensitiv	vity Cas	Caspr (D8I3V) Rabbit mAb recognizes endogenous levels of total Caspr protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro1375 of human Caspr protein.						
Background		Contactin-associated protein 1 (Caspr) is a membrane protein that is an essential component of the paranodal junctions in the peripheral and central nervous systems (PNS and CNS, respectively). Caspr is part of the Neurexin family of proteins and is also known as Neurexin IV, Paranodin, and Cntnap1. Caspr forms a complex, via its extracellular domain, with contactin at paranodal junctions of the axon (1, 2). Paranodal junctions are specialized junctions in the axon that are formed between the axolemma and the paranodal loops of myelinating glia. Paranodal structures are critical for salutatory conduction in the PNS and CNS. In the absence of Caspr, Caspr knockout mice exhibit mislocalization of other paranodal junction proteins, including contactin and neurofascin (3). Knockout mice also exhibit reduced nerve conduction velocities, as well as behavior defects consistent with abnormal nerve conduction. Therefore, Caspr is a critical component of a protein complex that is likely central to paranodal junction formation and maintenance.						
Background References		 Einheber, S. et al. (1997) J Cell Biol 139, 1495-506. Rios, J.C. et al. (2000) J Neurosci 20, 8354-64. Bhat, M.A. et al. (2001) Neuron 30, 369-83. 						
Species Reactivity	Spec	ies reactivity is dete	rmined by testing	g in at least one approve	ed application (e.g., w	estern 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	WB:	WB: Western Blotting IP: Immunoprecipitation IF-F: Immunofluorescence (Frozen)						
Cross-Reactivity Ke	X: X6	 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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Caspr (D8I3V) Rabbit mAb (#97736) Datasheet Without Images Cell Signaling Technology writing by a legally authorized representative of CST, are rejected and are of no force or effect.

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