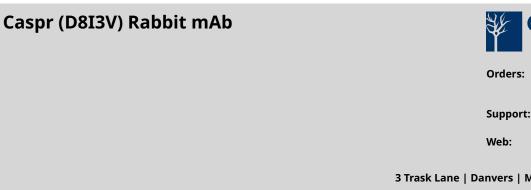
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Applications: W, IP, IF-F	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 190	Source/Isotype: Rabbit IgG	UniProt ID: #P78357	Entrez-Gene Id: 8506	
Product Usage Information Storage	3	0.02% sodium azide. S	(Frozen) dium HEPES (pH 7.5 Store at –20°C. Do n	5), 150 mM NaCl, 100 μg. ot aliquot the antibody. sion of this product see	1:10 1:50 1:80 /ml BSA, 50% glycer	0	
Specificity/Ser	sitivity	For a carrier free (BSA and azide free) version of this product see product #59964. Caspr (D8I3V) Rabbit mAb recognizes endogenous levels of total Caspr protein.					
Source / Purifi	-	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro1375 of human Caspr protein.				prresponding to	
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 R	eferences	1. Einheber, S. et al. (1997) <i>J Cell Biol</i> 139, 1495-506. 2. Rios, J.C. et al. (2000) <i>J Neurosci</i> 20, 8354-64. 3. Bhat, M.A. et al. (2001) <i>Neuron</i> 30, 369-83.					
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot E	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 K	ey	W: Western Blotting IP: Immunoprecipitation IF-F: Immunofluorescence (Frozen)					
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat					
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