e at -20C	Atlastin-1 (D2E6) Rabbit mAb	T	Cell Signaling	
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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;#		3 Trask Lane Danvers M	assachusetts 01923 USA	

Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 55	Source/Isotype: Rabbit IgG	UniProt ID: #Q8WXF7	Entrez-Gene Id: 51062		
Product Usage Information	•	oplication estern Blotting			Dilution 1:1000			
Storage		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		Atlastin-1 (D2E6) Rabbit mAb recognizes endogenous levels of total atlastin-1 protein. This antibody does not cross-react with atlastin-2 or atlastin-3. This antibody may cross-react with a protein of unknown origin at 100 kDa.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human atlastin-1 protein.						
Background Background References		Atlastin proteins are highly conserved members of the dynamin superfamily of membrane GTPases that are involved in the formation of vesicles for the endocytotic and secretory processes (1). Atlastins are required to establish and maintain the morphology of the tubular endoplasmic reticulum (ER) and are therefore important in ER function (2). GTP hydrolysis and dimerization are required for atlastin-dependent ER membrane fusion (3). Atlastin GTPase 1 (ATL1) is primarily expressed in brain, while the related atlastin 2 and atlastin 3 proteins are ubiquitously expressed (4). Mutations in the atlastin 1 gene SPG3A and the ER defects that result are thought to cause one form of hereditary spastic paraplegia (HSP), a group of heterogeneous neurological disorders characterized by severe progressive spasticity of the lower limbs (5,6).						
	3. N 4. F 5. S	 Park, S.H. and Blackstone, C. (2010) <i>EMBO Rep</i> 11, 515-21. Moss, T.J. et al. (2011) <i>Proc Natl Acad Sci U S A</i> 108, 11133-8. Rismanchi, N. et al. (2008) <i>Hum Mol Genet</i> 17, 1591-604. Salinas, S. et al. (2008) <i>Lancet Neurol</i> 7, 1127-38. Hu, J. et al. (2009) <i>Cell</i> 138, 549-61. 						
Species Reactivi	ty Spe	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 TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key	w WB	WB: Western Blotting						
Cross-Reactivity	X : X	 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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Atlastin-1 (D2E6) Rabbit mAb (#12728) Datasheet Without Images Cell Signaling Technology

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