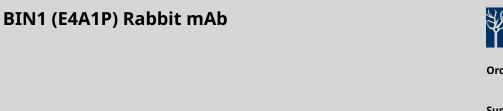
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Applications: W, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 45-80	Source/Isotype: Rabbit IgG	UniProt ID: #O00499	Entrez-Gene Id: 274		
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50			
Storage		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. <i>Do not aliquot the antibody.</i>				ol and less than		
Specificity/Sensitivity		BIN1 (E4A1P) Rabbit mAb recognizes endogenous levels of total BIN1 protein. The antibody recognizes multiple BIN1 isoforms.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val266 of human BIN1 protein.						
Background Background Re	eferences	 Bridging integrator 1 (BIN1, AMPHL) is an adaptor protein and putative tumor suppressor expressed as multiple isoforms due to alternative splicing. The BIN1 protein was originally identified as a Myc box-interacting protein with structural similarity to the synaptic vesicle protein amphiphysin (1). BIN1 protein structure contains an amino-terminal amphipathic helix and a BAR domain that is involved in sensing membrane curvature. The protein also includes a Myc-binding domain and an SH3 domain, which are implicated in protein-protein interactions (1). Multiple BIN1 isoforms range in size from approximately 45 to 65 kDa, with the nuclear BIN1 isoform found mostly in skeletal muscle and the cytoplasmic IIA isoform expressed in axon initial segments and nodes of Ranvier of the brain (2,3). Corresponding <i>BIN1</i> gene mutations and incorrect splicing can lead to impaired BIN1 membranetabulating and protein binding activities, resulting in development of autosomal recessive centronuclear myopathy and myotonic dystrophy (4,5). Genome-wide association studies link the <i>BIN1</i> gene with late onset Alzheimer disease (AD) and increased BIN1 mRNA expression is seen in AD brains (6,7). 1. Sakamuro, D. et al. (1996) <i>Nat Genet</i> 14, 69-77. 						
_		2. Ge, K. and Prenderg 3. Ramjaun, A.R. et al. 4. Nicot, A.S. et al. (200 5. Fugier, C. et al. (201 6. Seshadri, S. et al. (20 7. Chapuis, J. et al. (20	(1997) J Biol Chem)7) Nat Genet 39, 1 1) Nat Med 17, 720)10) JAMA 303, 183	272, 16700-6. 134-9. -5. 2-40.				
Species Reactiv	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivit	ty Key	H: Human M: Mouse						
Trademarks ar	nd Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						
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