## Phospho-NEDD4L (Ser448) Antibody





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Applications: W, IP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 110, 135	Source/Isotype: Rabbit	UniProt ID: #Q96PU5	Entrez-Gene Id: 23327
Product Usage Information	2	<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Ser	nsitivity	Phospho-NEDD4L (Ser448) Antibody detects endogenous levels of NEDD4L protein only when phosphorylated at Ser448.				
Species predic based on 100% homology	ted to react 6 sequence	Mouse, Rat, Monkey				
Source / Purifi	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser448 of human NEDD4L protein (corresponds to mouse Ser477 or rat Ser436). Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Neural precursor expre identified as a gene the Subsequently, a family humans (2). NEDD4 an calcium-dependent ph binding domains (WW NEDD4L have been sho epithelial Na <sup>+</sup> channels domains of NEDD4 bin proteins; ubiquitination their internalization an mutation of the PY mo dominant form of hype shown to negatively re human NEDD4 are rap this cleavage is not cle- NEDD4L can be phospl SGK1, Akt, and PKA (8- ENaCs and as a regular	essed, developmen at is highly express of NEDD4-like (NED ospholipid and me domains), and an own to downregul. s (ENaCs) in respor d to PY motifs (am n of these proteins d removal from th tifs in ENaC protei ertension (5). In ac gulate TGF-β signal idly cleaved by cas ar (7). horylated at Ser34 11). Phosphorylati tor of TGF-β signal	ntally down-regulated pr sed in the early mouse e teins have been defined DD4L) proteins contain m embrane binding domain E3 ubiquitin-protein liga ate both neuronal voltag ise to increased intracell ino acid sequence PPXY is is mediated by the HEC e plasma membrane. Re ns is associated with Lid- dition to targeting Smad2 pase proteins during ap 2 and Ser448 by several on at these sites inhibits ing through its effects o	otein 4 (NEDD4) wa mbryonic central ne that includes sever iultiple functional d i (C2 domain), two i se domain (HECT de le-gated Na <sup>+</sup> chann ular Na <sup>+</sup> concentra ) found in multiple 1 T domain of NEDD2 search studies hav dle's syndrome, an im channels, NEDD 2 for degradation (6 optosis, although t AGC kinase family i NEDD4L function a n Smad2/3 binding	as originally ervous system (1). n members in lomains including a to four protein omain). NEDD4 and els (NaVs) and tions (3,4). The WW NaV and ENaC 4 and results in e shown that autosomal 4L has also been b). Mouse and he significance of members including as a suppressor of (8-11).
Background R	eferences	1. Kumar, S. et al. (1992 2. Harvey, K.F. and Kun 3. Dinudom, A. et al. (1 4. Goulet, C.C. et al. (19 5. Staub, O. et al. (1996 6. Kuratomi, G. et al. (2 7. Harvey, K.F. et al. (19 8. Gao, S. et al. (2009) 9. Lee, I.H. et al. (2007) 10. Snyder, P.M. et al. (2 11. Debonneville, C. et	2) Biochem Biophy nar, S. (1999) Trend 998) Proc Natl Aca 998) J Biol Chem 27 5) EMBO J 15, 2371 2005) Biochem J 38 998) J Biol Chem 27 Mol Cell 36, 457-68 1 Biol Chem 282, 2 2004) J Biol Chem 2 al. (2001) EMBO J	s Res Commun 185, 115: Is Cell Biol 9, 166-9. d Sci USA 95, 7169-73. '3, 30012-7. '80. 6, 461-70. 3, 13524-30. ' 19866-73. 279, 45753-8. 20, 7052-9.	5-61.	

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.
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Cross-Reactivity Key	H: Human
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