

## Phospho-α-Adducin (Ser12) (E5X8Y) Rabbit mAb



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

<b>Applications:</b> W, IP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 120	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P35611	Entrez-Gene Id: 118	
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation		<b>Dilution</b> 1:1000 1:100			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibody.</i>					
Specificity/Sensitivity		Phospho- $\alpha$ -Adducin (Ser12) (E5X8Y) Rabbit mAb recognizes endogenous levels of $\alpha$ -adducin protein only when phosphorylated at Ser12. In some cell lines, this antibody cross-reacts with a 150 kDa band of unknown origin. This band appears to be upregulated in mitosis.					
Species predicted to react based on 100% sequence homology		Mouse, Rat					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser12 of human $\alpha$ -adducin protein.					
Background		promote association be related genes ADD1, A Research studies indice whereas both α-adduction and β-adduction Additionally, PKA (but negatively affects spendous) adduction at Ser12 and suggesting that α-adduction great social social social social social suggesting renal social series adduction at Ser12 and suggesting that α-adduction great social social series adduction great social series and social series adduction at Ser12 and suggesting that α-adduction great social series and series and series adduction at Ser12 and suggesting that α-adduction great series and	etween spectrin ar ADD2, and ADD3 en cate that β-adducin cin and γ-adducin a rylation at a number at Ser713, which ir not PKC) can phospectrin-actin interacticell motility and meser355 during mitolucin may play a rolum reabsorption, it	ociated proteins that he nd actin, and participate acode the α-adducin, β-a is found at high levels in re ubiquitously expresser of sites. Both PKA and thibits calmodulin bindire bhorylate β-adducin at Sons (3). Phosphorylation embrane ruffling (6). Finallisis leads to association to in mitotic regulation (7) is not surprising that a red at the development of lead action to the development of lead action.	in synapse assemb dducin, and γ-addu n brain and hemato ed (2). Adducin prot I PKC can phosphor ng and adducin acti er408, Ser436, and of α-adducin at Th ally, CDK-1 phospho of α-adducin with tl 7). Because α-adducin	ly. The three closely cin proteins (1). poietic tissues, ein function is ylate α-adducin at vity (3-5). Ser481, which r445 and Thr480 by rylation of α-ne mitotic spindle, cin plays a role in how a relationship	
Background References		2. Joshi, R. et al. (1991 3. Matsuoka, Y. et al. ( 4. Chen, C.L. et al. (200 5. Naydenov, N.G. and 6. Fukata, Y. et al. (199 7. Chan, P.C. et al. (201 8. Kalita, J. et al. (2013 9. Kundu, A. and Anan	) <i>J Cell Biol</i> 115, 665 1996) <i>J Biol Chem</i> 2 07) <i>J Cell Sci</i> 120, 11 Ivanov, A.I. (2010) 19) <i>J Cell Biol</i> 145, 34 4) <i>J Cell Biol</i> 204, 19 1) <i>Neurol Res</i> 35, 429 1d, A. (2013) <i>Cell Bio</i>	996) <i>J Biol Chem</i> 271, 25157-66. ) <i>J Cell Sci</i> 120, 1157-67. vanov, A.I. (2010) <i>Mol Biol Cell</i> 21, 3506-17. ) <i>J Cell Biol</i> 145, 347-61. ) <i>J Cell Biol</i> 204, 19-28.			

**Species Reactivity** 

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: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: Human

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