Phospho-Ack1 (Tyr284) Antibody





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Applications: W, W-S	Reactivity: H	Sensitivity: Transfected Only	MW (kDa): 135	Source/Isotype: Rabbit	UniProt ID: #Q07912	Entrez-Gene Id: 10188	
Product Usage Information		ApplicationDilutionWestern Blotting1:1000Simple Western™1:10 - 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/Sen	sitivity	Phospho-Ack1 (Tyr284) Antibody detects transfected levels of Ack1 only when phosphorylated at Tyr284.					
Species predict based on 100% homology		Mouse, Rat					
Source / Purific	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr284 of human Ack1. Antibodies are purified by peptide affinity chromatography.					
Background		Ack1 and Ack2 (activated cdc42-associated kinase 1 and 2) are non-receptor tyrosine kinases that consist of a tyrosine kinase core, an SH3 domain, a cdc42/Rac-binding (CRIB) domain, a Ralt homology region and a proline-rich region (1,2). Ack1 and 2 are the only two tyrosine kinases known to interact with cdc42. Both Acks are activated by growth factors including EGF and PDGF, as well as by activated integrins through cell adhesion, and may serve to link receptor tyrosine kinase or G protein-coupled receptor signaling with cdc42. Acks may regulate cell growth, morphology and motility (3,4). Recent findings indicate that Ack1 may play a role in prostate tumorigenesis, making it a potential drug target for this type of cancer (5). Tyr284 is located in the activation loop of Ack1 and is a primary autophosphorylation site critical for Ack1 kinase activity (5).					
Background Re	eferences	2. Yokoyama, N. and M 3. Yang, W. and Cerione 4. Yang, W. et al. (2001) 5. Mahajan, N.P. et al. (2	alisteo, M.L. et al. (2006) <i>Proc. Natl. Acad. Sci. USA</i> 103, 9796-9801. okoyama, N. and Miller, W.T. (2003) <i>J. Biol. Chem.</i> 278, 47713-47723. ang, W. and Cerione, R.A. (1997) <i>J. Biol. Chem.</i> 272, 24819-24824. ang, W. et al. (2001) <i>J. Biol. Chem.</i> 276, 43987-43993. ahajan, N.P. et al. (2005) <i>Cancer Res.</i> 65, 10514-10523. okoyama, N. and Miller, W.T. (2006) <i>Methods Enzymol.</i> 406, 250-260.				
Species Reactiv	vity	Species reactivity is det	ermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	Buffer		IPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X 3S, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications K	ey	W: Western Blotting W-S: Simple Western™					
Cross-Reactivit	ty Key	H: Human					
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