Phospho-Ack1 (Tyr284) Antibody Image: Condense of the condense o

For Research Use Only	. Not for Use	in Diagnostic Procedure	s.

Applications: WB, W-S	Reactivity: H	Sensitivity: Transfected Only	MW (kDa): 135	Source: Rabbit	UniProt ID: #Q07912	Entrez-Gene Id: 10188	
Product Usage	Ар	plication			Dilution		
Information	We	Western Blotting		1:1000			
	Sir	nple 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 / Sensi	tivity Pho	Phospho-Ack1 (Tyr284) Antibody detects transfected levels of Ack1 only when phosphorylated at Tyr284					
Species predicted react based on 10 sequence homolo	0%	use, Rat					
Source / Purificati					th a synthetic phosphope purified by peptide affir		
Background	of a and Boti thro sigr indi of c Tyr2	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 Refe	2. Y 3. Y 4. Y 5. M	 Galisteo, M.L. et al. (2006) <i>Proc. Natl. Acad. Sci. USA</i> 103, 9796-9801. Yokoyama, N. and Miller, W.T. (2003) <i>J. Biol. Chem.</i> 278, 47713-47723. Yang, W. and Cerione, R.A. (1997) <i>J. Biol. Chem.</i> 272, 24819-24824. Yang, W. et al. (2001) <i>J. Biol. Chem.</i> 276, 43987-43993. Mahajan, N.P. et al. (2005) <i>Cancer Res.</i> 65, 10514-10523. Yokoyama, N. and Miller, W.T. (2006) <i>Methods Enzymol.</i> 406, 250-260. 					
Species Reactivity	/ Spec	cies reactivity is dete	ermined by testing i	n at least one appro	oved application (e.g., we	estern blot).	
Western Blot Buff		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	WB	: Western Blotting V	V-S: Simple Wester	n™			
Cross-Reactivity F	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 					
Trademarks and Patents	All o	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.					

Phospho-Ack1 (Tyr284) Antibody (#3138) Datasheet Without Images Cell Signaling Technology

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