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Applications: W, IP	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 55-65	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #Q8IZP0	Entrez-Gene Id: 10006		
Product Usage Information Storage		<b>Application</b> Western Blotting Immunoprecipitation Supplied in 10 mM soc	dium HEPES (pH 7.:	5), 150 mM NaCl, 100 µg	<b>Dilution</b> 1:1000 1:100 /ml BSA, 50% glycer	ol and less than		
_		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. Do not aliquot the antibody.						
	<b>Specificity/Sensitivity</b> Abi1 (D3G6C) Rabbit mAb recognizes endogenous levels of total Abi1 protein.							
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Thr118 of human Abi1 protein.				orresponding to		
Background		Abi1, Abi2 and Abi3 are members of the Abl1 interactor family, which function as adaptor signaling molecules down stream of the receptor tyrosine kinase Ab1 (1-3). In addition to Abl, Abi1 has been shown to interact with the important signaling transducers WAVE and p85PI3K to regulate cytoskeletal and growth signaling (4,5). Along its sequences, Abi1 has multiple modules for carrying on these interactions. It has a WAVE binding domain, which allows it to interact with WAVE, a homeo-domain/PEST domain, which, when phosphorylated can acts as a docking site for SH2 binding, a PXXP sequence to interact with the SH3 domain of Abl, and a C-terminal SH3 domain for interaction with the proline rich region of Ab1 (4,5). Abl can phosphorylate Abi1 on Y213 (6), the phosphorylated sequence serves as a docking site for both the SH2 domain of Abl and the SH2 domain of Abi1 at Y435 promotes tumor cell adhesion and invasion (8).						
Background R	eferences	<ol> <li>Shi, Y. et al. (1995) <i>Genes Dev</i> 9, 2583-97.</li> <li>Dai, Z. and Pendergast, A.M. (1995) <i>Genes Dev</i> 9, 2569-82.</li> <li>Miyazaki, K. et al. (2000) <i>Biochim Biophys Acta</i> 1493, 237-41.</li> <li>Kotula, L. (2012) <i>FEBS Lett</i> 586, 2790-4.</li> <li>Hossain, S. et al. (2012) <i>Genes Cancer</i> 3, 402-13.</li> <li>Xiong, X. et al. (2008) <i>Biochim Biophys Acta</i> 1783, 737-47.</li> <li>Dubielecka, P.M. et al. (2010) <i>FEBS Lett</i> 584, 3279-86.</li> <li>Steinestel, K. et al. (2014) <i>Mol Cancer</i> 13, 145.</li> </ol>						
Species Reactiv	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot E	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 K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat						
Trademarks ar	nd Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						
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