## 39444 Store at -200

## Abi1 (D3G6C) Rabbit mAb



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

Applications: WB, IP	Reactivity: H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 55-65	Source/Isotype: Rabbit IgG	UniProt ID: #Q8IZP0	Entrez-Gene Id: 10006	
Product Usage Information	Ap	plication		Dilution			
	We	stern Blotting		1:1000			
	Imi	munoprecipitation		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 $-20^{\circ}$ C. Do not aliquot the antibody.					
Specificity / Sensitivity Abi1 (D3G6C) Rabbit mA			nAb recognizes e	b recognizes endogenous levels of total Abi1 protein.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Thr118 of human Abi1 protein.					
Background	molito iro iro iro iro iro iro sign WA\ pho dom can SH2	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 p85PI3K (7). Another important phosphorylation site for Abi1 is Y435. Phosphorylation of Abi1 at Y435 promotes tumor cell adhesion and invasion (8).					
Background Refere	2. D 3. M 4. K 5. H 6. X 7. D	<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 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** 

WB: Western Blotting IP: Immunoprecipitation

**Cross-Reactivity Key** 

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

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Abi1 (D3G6C) Rabbit mAb (#39444) Datasheet Without Images Cell Signaling Technology writing by a legally authorized representative of CST, are rejected and are of no force or effect.

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