

## #3887

## Phospho-Gab2 (Tyr452) (C33G1) Rabbit



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications:	Reactivity: H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 98	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #Q9UQC2	Entrez-Gene Id: 9846
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		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.				
Specificity/Sensitivity		Phospho-Gab2 (Tyr452) (C33G1) Rabbit mAb detects endogenous levels of Gab2 only when phosphorylated at Tyr452. This antibody weakly cross-reacts with tyrosine-phosphorylated Gab1 and Gab3 proteins.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr452 of human Gab2.				
Background		receptor tyrosine kina antigen receptors. Up membrane where it is phosphorylation sites binding to p85 PI3 kin association to PLCγ (8) activation of the prote Gab2 is also phosphor regulatory subunit of phosphorylates Gab2	ses (RTKs) such as I on stimulation of R phosphorylated ar of Gab1 protein ha ase (6,7). Phosphor . Phosphorylation of in tyrosine phosph ylated by tyrosine I PI3 kinase (12). Tyro at Ser159 and inhib	a family of adaptor pro EGFR, HGFR, insulin rece TKs by their cognate liga d functions as a scaffold ve been identified (5). Pl ylation of Gab1 at Tyr30 of Tyr627 and Tyr659 is ratase SHP2 (6,9). kinases (10,11). Tyr452 is 514 is essential for SHP2 oits Gab2 tyrosine phosp of Gab2 signaling (13).	ptor, cytokine reception, cytokine reception, Gab is recruited (1-4). Multiple tyron for Tyra, Tyra, Tyra, Tyra, and Tyra, equired for Gab1 best a potential binding association (11). Further tyra, t	otor and B cell d to the plasma esine yr472 regulates its of modulates its inding to and g site of p85, the urthermore, Akt
Background References		1. Holgado-Madruga, M. et al. (1996) <i>Nature</i> 379, 560-564. 2. Weidner, K.M. et al. (1996) <i>Nature</i> 384, 173-176. 3. Takahashi-Tezuka, M. et al. (1998) <i>Mol. Cell. Biol.</i> 18, 4109-4117. 4. Ingham, R.J. et al. (2001) <i>J Biol Chem</i> 276, 12257-65. 5. Lehr, S. et al. (1999) <i>Biochemistry</i> 38, 151-159. 6. Rocchi, S. et al. (1998) <i>Mol. Endocrinol.</i> 12, 914-923. 7. Yu, C.F. et al. (2001) <i>J Biol Chem</i> 276, 32552-8. 8. Gual, P. et al. (2000) <i>Oncogene</i> 19, 1509-18. 9. Cunnick, J.M. et al. (2001) <i>J Biol Chem</i> 276, 24380-7. 10. Gadina, M. et al. (2000) <i>J. Biol. Chem.</i> 275, 26959-26966. 11. Yamasaki, S. et al. (2001) <i>J. Biol. Chem.</i> 276, 45175-451783. 12. Crouin, C. et al. (2001) <i>FEBS Lett.</i> 495, 148-153. 13. Lynch, D.K. and Daly, R.J. (2002) <i>EMBO J.</i> 21, 72-82.				

**Species Reactivity** Species reactivity is determined by testing in at least one approved application (e.g., western blot).

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

**Western Blot Buffer** 

Cross-Reactivity Key H: Human M: Mouse

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