Store at -20C

Phospho-Gab2 (Tyr452) (C33G1) Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

877-678-TECH (8324) Support:

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

			achusetts 01923 USA				
For Research Use Only. Not for Use in Diagnostic Procedures.							
Applications: WB	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 98	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UQC2	Entrez-Gene Id: 9846	
Product Usage Information	Ар	Application			Dilution		
	We	estern Blotting		1:1000			
Storage	age 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 sy residues surrounding Tyr452 of human Gab2.				synthetic phosphopep	tide corresponding to		
Background	rece anti mer sites kina Pho pho Gab	The Grb-associated binder (Gab) family is a family of adaptor proteins recruited by a wide variety of receptor tyrosine kinases (RTKs) such as EGFR, HGFR, insulin receptor, cytokine receptor and B cell antigen receptors. Upon stimulation of RTKs by their cognate ligand, Gab is recruited to the plasma membrane where it is phosphorylated and functions as a scaffold (1-4). Multiple tyrosine phosphorylation sites of Gab1 protein have been identified (5). Phosphorylation of Tyr472 regulates its binding to p85 Pl3 kinase (6,7). Phosphorylation of Gab1 at Tyr307, Tyr373 and Tyr407 modulates its association to PLCγ (8). Phosphorylation of Tyr627 and Tyr659 is required for Gab1 binding to and activation of the protein tyrosine phosphatase SHP2 (6,9). Gab2 is also phosphorylated by tyrosine kinases (10,11). Tyr452 is a potential binding site of p85, the					

regulatory subunit of PI3 kinase (12). Tyr614 is essential for SHP2 association (11). Furthermore, Akt phosphorylates Gab2 at Ser159 and inhibits Gab2 tyrosine phosphorylation, suggesting that Akt is engaged in negative feedback regulation of Gab2 signaling (13).

Background References

- 1. Holgado-Madruga, M. et al. (1996) Nature 379, 560-564.
- 2. Weidner, K.M. et al. (1996) Nature 384, 173-176.
- 3. Takahashi-Tezuka, M. et al. (1998) Mol. Cell. Biol. 18, 4109-4117.
- 4. Ingham, R.J. et al. (2001) J Biol Chem 276, 12257-65.
- 5. Lehr, S. et al. (1999) Biochemistry 38, 151-159.
- 6. Rocchi, S. et al. (1998) Mol. Endocrinol. 12, 914-923.
- 7. Yu, C.F. et al. (2001) J Biol Chem 276, 32552-8.
- 8. Gual, P. et al. (2000) Oncogene 19, 1509-18.
- 9. Cunnick, J.M. et al. (2001) J Biol Chem 276, 24380-7.
- 10. Gadina, M. et al. (2000) J. Biol. Chem. 275, 26959-26966.
- 11. Yamasaki, S. et al. (2001) J. Biol. Chem. 276, 45175-451783.
- 12. Crouin, C. et al. (2001) FEBS Lett. 495, 148-153.
- 13. Lynch, D.K. and Daly, R.J. (2002) EMBO J. 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, Western Blot Buffer

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

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

1/1/24, 7:24 AM

Phospho-Gab2 (Tyr452) (C33G1) Rabbit mAb (#3882) Datasheet Without Images Cell Signaling Technology

Trademarks and Patents

Limited Uses

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.
U.S. Patent No. 7,429,487, foreign equivalents, and child patents deriving therefrom.
All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.