

Phospho-Gab2 (Tyr452) Antibody



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Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 98	Source/Isotype: Rabbit	UniProt ID: #Q9UQC2	Entrez-Gene Id: 9846
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-Gab2 (Tyr452) Antibody detects endogenous levels of Gab2 only when phosphorylated at tyrosine 452. This antibody cross-reacts with phosphorylated Gab1 and Gab3.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr452 of human Gab2. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		receptor tyrosine kind antigen receptors. Up membrane where it is phosphorylation sites binding to p85 PI3 kinds association to PLCy (8 activation of the protogab2 is also phosphoregulatory subunit of phosphorylates Gab2	ases (RTKs) such as son stimulation of R s phosphorylated an s of Gab1 protein ha hase (6,7). Phosphor B). Phosphorylation ein tyrosine phosph rylated by tyrosine PI3 kinase. Tyr614 at Ser159 and inhil	s a family of adaptor pro EGFR, HGFR, insulin rece TKs by their cognate ligand functions as a scaffol- ive been identified (5). Prylation of Gab1 at Tyr30 of Tyr627 and Tyr659 is atase SHP2 (6,9). kinases (10,11). Tyr452 is sessential for SHP2 assoits Gab2 tyrosine phospan of Gab2 signaling (12).	eptor, cytokine recel and, Gab is recruite d (1-4). Multiple tyro hosphorylation of T 07, Tyr373 and Tyr4 required for Gab1 b s a potential bindin ociation (11). Furtho	otor and B cell d to the plasma osine yr472 regulates its of modulates its inding to and g site of p85, the ermore, 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. (2001) <i>J Biol Chem</i> 275, 26959-66. 11. Yamasaki, S. et al. (2001) <i>J Biol Chem</i> 276, 45175-83. 12. 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).

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 W: Western Blotting

Cross-Reactivity Key H: Human M: Mouse R: Rat

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