Phospho-Gab2 (Ser159) Antibody



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

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 so 20°C. Do not aliquot t		5), 150 mM NaCl, 100 μg	/ml BSA and 50% g	ycerol. Store at –
Specificity/Sensitivity		Phospho-Gab2 (Ser159) Antibody detects endogenous levels of Gab2 only when phosphorylated at serine 159. This antibody does not cross-react with Gab1 or Gab3.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser159 of human Gab2. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		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 PI3 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). Akt phosphorylates Gab2 at Ser159. This phosphorylation inhibits Gab2 tyrosine phosphorylation and downstream signal amplification (10).				
Background Ref	erences	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. Lynch, D.K. and Daly, R.J. (2002) <i>EMBO J</i> 21, 72-82.				
Species Reactivi	tv	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.	western blot)

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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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