

#3884 Store at -20°C

Phospho-Gab2 (Ser159) Antibody

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R	Endogenous	98	Rabbit	#Q9UQC2	9846

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
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	<p>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).</p>	
Background References	<ol style="list-style-type: none"> Holgado-Madruga, M. et al. (1996) <i>Nature</i> 379, 560-564. Weidner, K.M. et al. (1996) <i>Nature</i> 384, 173-176. Takahashi-Tezuka, M. et al. (1998) <i>Mol. Cell. Biol.</i> 18, 4109-4117. Ingham, R.J. et al. (2001) <i>J Biol Chem</i> 276, 12257-65. Lehr, S. et al. (1999) <i>Biochemistry</i> 38, 151-159. Rocchi, S. et al. (1998) <i>Mol. Endocrinol.</i> 12, 914-923. Yu, C.F. et al. (2001) <i>J Biol Chem</i> 276, 32552-8. Gual, P. et al. (2000) <i>Oncogene</i> 19, 1509-18. Cunnick, J.M. et al. (2001) <i>J Biol Chem</i> 276, 24380-7. 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	WB: Western Blotting
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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