

## #3233 si

## Phospho-Gab1 (Tyr627) (C32H2) Rabbit mAh



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

Applications: W	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 110	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #Q13480	Entrez-Gene Id: 2549
Product Usage Information	<b>!</b>	<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-Gab1 (Tyr627) (C32H2) Rabbit mAb detects endogenous levels of Gab1 only when phosphorylated at Tyr627. The antibody may cross-react with phosphorylated Gab2 or Gab3, or with activated receptor tyrosine kinases (RTKs).				
Species predic based on 100% homology		Mouse, Rat				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr627 of human Gab1.				
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 PLCy (8). Phosphorylation of Tyr627 and Tyr659 is required for Gab1 binding to and activation of the protein tyrosine phosphatase SHP2 (6,9).				
Background References		<ol> <li>Holgado-Madruga, M. et al. (1996) Nature 379, 560-564.</li> <li>Weidner, K.M. et al. (1996) Nature 384, 173-176.</li> <li>Takahashi-Tezuka, M. et al. (1998) Mol. Cell. Biol. 18, 4109-4117.</li> <li>Ingham, R.J. et al. (2001) J Biol Chem 276, 12257-65.</li> <li>Lehr, S. et al. (1999) Biochemistry 38, 151-159.</li> <li>Rocchi, S. et al. (1998) Mol. Endocrinol. 12, 914-923.</li> <li>Yu, C.F. et al. (2001) J Biol Chem 276, 32552-8.</li> <li>Gual, P. et al. (2000) Oncogene 19, 1509-18.</li> <li>Cunnick, J.M. et al. (2001) J Biol Chem 276, 24380-7.</li> </ol>				
Species Reacti	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X				

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  $4^{\circ}$ C with gentle shaking, overnight.

Applications Key W: Western Blotting

Cross-Reactivity Key H: Human

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