Store at -20C

Phospho-Gab1 (Tyr627) Antibody



Orders:

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Applications: WB	Reactivity: H R Mk	Sensitivity: Endogenous	MW (kDa): 110	Source: Rabbit	UniProt ID: #Q13480	Entrez-Gene Id 2549	
Product Usage Information	Ap	plication		Dilution			
	We	stern Blotting		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 / Sensi	Phospho-Gab1 (Tyr627) Antibody detect tyrosine 627. The antibody may cross-retyrosine kinases (RTKs).			•	, ,	, ,	
Species predicted react based on 10 sequence homological	0%	Mouse, Hamster					
Source / Purificati	i on Poly	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding					

Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr627 of human Gab1. 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 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

- 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.

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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Trademarks and Patents

Limited Uses

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