Phospho-Gab1 (Tyr659) Antibody

100 μl (10 western blots)



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Applications	Species Cross-Reactivity*	Molecular Wt.	Source	
W. IP	H, (M, R)	110 kDa	Rabbit**	
Endogenous	, (,,			

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).

Specificity/Sensitivity: Phosho-Gab1 (Tyr659) Antibody recognizes endogenous levels of Gab1 protein only when phosphorylated at Tyr659.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr659 of human Gab1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

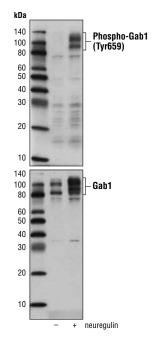
Background References:

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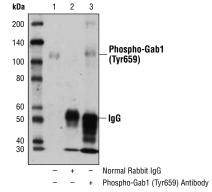
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Immunoprecipitation of phospho-Gab1 (Tyr659) from neuregulin-stimulated (100 ng/ml, 15 min) T-47D cell extracts using Normal Rabbit IgG #2729 (lane 2) or Phospho-Gab1 (Tyr659) Antibody (lane 3). Lane 1 is 10% input. Western blot analysis was performed using Phospho-Gab1 (Tyr659) Antibody.



Western blot analysis of cell extracts from serum-starved T-47D cells, untreated (-) or treated with neuregulin (100 ng/ml, 15 min; +), using Phospho-Gab1 (Tyr659) Antibody (upper) or Gab1 Antibody #3232 (lower).



Entrez Gene ID #2549 **UniProt ID** #Q13480

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.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

1:1000 Western blotting Immunoprecipitation 1:50

For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended complementary products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.