

# Gab Antibody Sampler Kit



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Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
Phospho-Gab1 (Tyr307) Antibody	3234	40 µl	115 kDa	Rabbit
Gab1 Antibody	3232	40 µl	110 kDa	Rabbit
Phospho-Gab2 (Ser159) Antibody	3884	40 µl	98 kDa	Rabbit
Phospho-Gab2 (Tyr452) (C33G1) Rabbit mAb	3882	40 µl	98 kDa	Rabbit IgG
Gab2 (26B6) Rabbit mAb	3239	40 µl	90 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

Please visit [cellsignal.com](http://cellsignal.com) for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

## Description

The Gab Antibody Sampler Kit provides an economical means of evaluating levels of Gab1 and Gab2 total protein, as well phosphorylated Gab1 and Gab2 at the specified sites. The kit contains enough reagents to perform four western blot experiments per primary antibody.

## Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

## 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). Gab2, a recently identified docking protein of Gab family, contains a pleckstrin homology domain and potential binding sites for SH2 and SH3 domain-containing proteins. Gab2 has been shown to support growth, differentiation and function in a number of hematopoietic cells (10).

## Background References

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