

**#3232** Store at  $-20^{\circ}\text{C}$

# Gab1 Antibody



100  $\mu\text{l}$   
 (10 western blots)

**Orders** ■ 877-616-CELL (2355)  
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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

**Entrez-Gene ID** #2549  
**Swiss-Prot Acc.** #Q13480

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

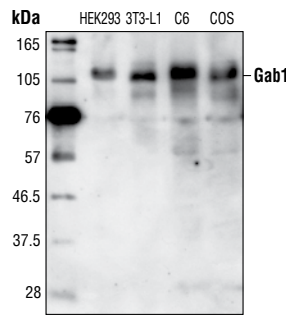
**Background:** The GRB-associated binder (Gab) family is a family of adaptor proteins recruited by a wide variety of receptor tyrosine kinases (RTKs) such as EGFR, HGFR, insulin receptor, cytokine receptor and B cell antigen receptors. Upon stimulation of RTKs by their cognate ligand, Gab is recruited to the plasma membrane, undergoes phosphorylation and functions as a multiprotein assembly center (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 PLC $\gamma$  (8). Phosphorylation of Tyr627 and Tyr659 is required for Gab1 binding to and activation of the protein tyrosine phosphatase SHP2 (6,9).

**Specificity/Sensitivity:** Gab1 Antibody detects endogenous levels of total Gab1 protein. This antibody may cross with Gab2 and Gab3.

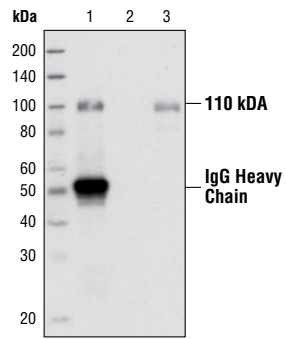
**Source/Purification:** Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Tyr472 of human Gab1. Antibodies are purified by protein A and peptide affinity chromatography.

**Background References:**

- Holgado-Madruga, M. et al. (1996) *Nature* 379, 560-564.
- Weidner, K.M. et al. (1996) *Nature* 384, 173-176.
- Takahashi-Tezuka, M. et al. (1998) *Mol. Cell. Biol.* 18, 4109-4117.
- Ingham, R.J. et al. (2001) *J. Biol. Chem.* 276, 12257-12265.
- Lehr, S. et al. (1999) *Biochemistry* 38, 151-159.
- Rocchi, S. et al. (1998) *Mol. Endocrinol.* 12, 914-923.
- Yu, C.F. et al. (2001) *J. Biol. Chem.* 276, 32552-32558.
- Gual, P. et al. (2000) *Oncogene* 19, 1509-1518.
- Cunnick, J.M. et al. (2001) *J. Biol. Chem.* 276, 24380-24387.



Western blot analysis of extracts from HEK293, 3T3-L1, C6 and COS cells using Gab1 Antibody.



Immunoprecipitation of Gab 1 from insulin treated Cos cell extracts using Gab 1 antibody (Lane 1). Lane 2: No antibody control. Lane 3: Input control.

**Storage:** Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100  $\mu\text{g/ml}$  BSA and 50% glycerol. Store at  $-20^{\circ}\text{C}$ . 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:**

Western Blotting 1:1000  
 Immunoprecipitation 1:50

**For application specific protocols please see the web page for this product at [www.cellsignal.com](http://www.cellsignal.com).**

**Please visit [www.cellsignal.com](http://www.cellsignal.com) for a complete listing of recommended companion 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.**

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**Applications Key:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide  
**Species Cross-Reactivity Key:** H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.