

#3239 Store at -20°C

# Gab2 (26B6) Rabbit mAb



✓ 100 µl  
(10 western blots)

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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** #9846  
**Swiss-Prot Acc.** #Q9UQC2

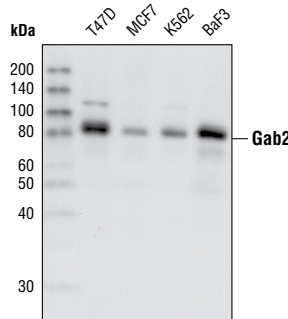
Applications W Endogenous	Species Cross-Reactivity H, M	Molecular Wt. 90 kDa	Isotype Rabbit IgG**
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**Background:** The GRB-associated binder (Gab) family is a family of adaptor proteins recruited by a wide variety of receptor tyrosine kinases (RTKs) 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-γ (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).

**Specificity/Sensitivity:** Gab2 (26B6) Rabbit mAb detects endogenous levels total of Gab2 protein. This antibody does not cross-react with Gab1 or Gab3.

**Source/Purification:** Monoclonal antibody is produced by immunizing animals with recombinant human Gab2 protein.



Western blot analysis of cell extracts from various cell lines, using Gab2 (26B6) Rabbit mAb.

**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.

\*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

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.

**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, 12257–12265.
- (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, 32552–32558.
- (8) Gual, P. et al. (2000) *Oncogene* 19, 1509–1518.
- (9) Cunnick, J.M. et al. (2001) *J. Biol. Chem.* 276, 24380–24387.
- (10) Yi, Q. et al. (2005) *Biochem. Biophys. Res. Commun.* 337, 446–451.

**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.**

**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.