Revision 1

#3239 Store at -20C

Gab2 (26B6) Rabbit mAb

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M	Endogenous	90	Rabbit IgG	#Q9UQC2	9846

Product Usage Information

Application	Dilution
Western Blotting	1:1000

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.

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.

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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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.
10. Yi, Q. et al. (2005) *Biochem. Biophys. Res. Commun.* 337, 446-451.

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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