

**Gab1 Antibody (Ascites)**  
**Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM3111a****Specification**

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**Gab1 Antibody (Ascites) - Product Information**

Application	<b>WB,E</b>
Primary Accession	<a href="#">O13480</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>Mouse IgG1</b>

**Gab1 Antibody (Ascites) - Additional Information****Gene ID** 2549**Other Names**

GRB2-associated-binding protein 1, GRB2-associated binder 1, Growth factor receptor bound protein 2-associated protein 1, GAB1

**Target/Specificity**

This Gab1 antibody is generated from mice immunized with a GST fusion protein encoding full length human GAB1.

**Dilution**

WB~~1:1000

**Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Gab1 Antibody (Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

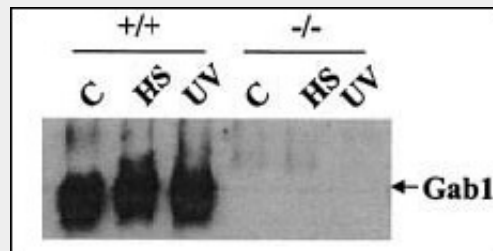
**Gab1 Antibody (Ascites) - Protein Information****Name** GAB1**Function** Adapter protein that plays a role in intracellular signaling cascades triggered by activated receptor-type kinases. Plays a role in FGFR1 signaling. Probably involved in signaling by the epidermal growth factor receptor (EGFR) and the insulin receptor (INSR). Involved in the MET/HGF-signaling pathway (PubMed:[29408807](#)).

## Gab1 Antibody (Ascites) - Protocols

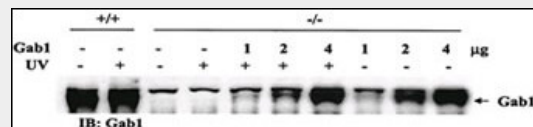
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Gab1 Antibody (Ascites) - Images



Wild-type (+/+) and Gab1<sup>-/-</sup> (-/-) cells were heat shocked (HS) at 42°C for 1 h or irradiated with UV-B light (400 J/m<sup>2</sup>) and then incubated at 37°C for 1 h. Cell lysates were prepared and subjected to immunoprecipitation (IP) with an anti-JNK2 antibody. The immunoprecipitates were resolved by SDS-PAGE and immunoblotted (IB) with anti-Gab1 antibody. Data courtesy of Dr. GS Feng at The Burnham Institute.



Rescue of the JNK pathway by expression of wild-type Gab1 in Gab1<sup>-/-</sup> cells. Gab1<sup>-/-</sup> cells were transiently transfected with 1, 2, or 4 of the expression construct for human Gab1 cDNA, using the GenePORTER 2 transfection reagent (Gene Therapy Systems Inc.). After incubation, the cells were irradiated with UV-B light at 400 J/m<sup>2</sup> or left untreated. Exogenous expression of Gab1 in transfected cells was confirmed by anti-Gab1 immunoblot analysis with wild-type cells as positive control. +/+, wild-type cells; -/-, Gab1<sup>-/-</sup> cells. (Mol. Cell. Biol. 2004 Feb 15;24(4):1531-1539)

## Gab1 Antibody (Ascites) - Background

The protein encoded by this gene is a member of the IRS1-like multisubstrate docking protein family. It is an important mediator of branching tubulogenesis and plays a central role in cellular growth response, transformation and apoptosis. Two transcript variants encoding different isoforms have been found for this gene.

## Gab1 Antibody (Ascites) - References

An approach based on a genome-wide association study reveals candidate loci for narcolepsy. Shimada M, et al. Hum Genet, 2010 Oct. PMID 20677014.  
Variation at the NFATC2 Locus Increases the Risk of Thiazolidinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey

SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

Grb2-associated binder 1 (Gab1) genetic polymorphism, Helicobacter pylori infection, and chronic atrophic gastritis among older adults from Germany. Gao L, et al. Mol Carcinog, 2010 Oct. PMID 20602450.

New genetic associations detected in a host response study to hepatitis B vaccine. Davila S, et al. Genes Immun, 2010 Apr. PMID 20237496.

Assembly of the Sos1-Grb2-Gab1 ternary signaling complex is under allosteric control. McDonald CB, et al. Arch Biochem Biophys, 2010 Feb 15. PMID 20005866.

**Gab1 Antibody (Ascites) - Citations**

- [Acquired substrate preference for GAB1 protein bestows transforming activity to ERBB2 kinase lung cancer mutants.](#)
- [Role of Gab1 in UV-induced c-Jun NH2-terminal kinase activation and cell apoptosis.](#)