

# Gab 2 (M-19): sc-9313

## BACKGROUND

Growth factor triggering of protein tyrosine kinase receptors induces signals that cascade to the nucleus, activating mitogenic as well as other responses. Critical components of this process include adapter protein such as Shc, IRS-1 and Gab 1 (GRB-associated binder-1) that lack detectable catalytic activity. These are immediate substrates of receptor tyrosine kinase activity and serve to link activated receptors to downstream signaling components. Whereas Shc has been implicated in signaling by diverse receptor families, IRS-1 serves primarily as the major Insulin receptor substrate. Shc and Gab 1 also participate in Insulin signaling by linking the Insulin receptor to Ras by forming complexes with GRB2 (another adapter protein) and Sos independently of IRS-1. The Gap 1 related protein, Gab 2, associates with SH2 domain-containing proteins, such as SHP2, and it is involved in a novel pathway for cytokine-induced gene activation.

## CHROMOSOMAL LOCATION

Genetic locus: GAB2 (human) mapping to 11q14.1; Gab2 (mouse) mapping to 7 E1.

## SOURCE

Gab 2 (M-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Gab 2 of mouse origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-9313 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Gab 2 (M-19) is recommended for detection of Gab 2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Gab 2 (M-19) is also recommended for detection of Gab 2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Gab 2 siRNA (h): sc-40606, Gab 2 siRNA (m): sc-40607, Gab 2 shRNA Plasmid (h): sc-40606-SH, Gab 2 shRNA Plasmid (m): sc-40607-SH, Gab 2 shRNA (h) Lentiviral Particles: sc-40606-V and Gab 2 shRNA (m) Lentiviral Particles: sc-40607-V.

Molecular Weight of Gab 2: 88 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203, MCP-5 whole cell lysate or mouse brain extract: sc-2253.

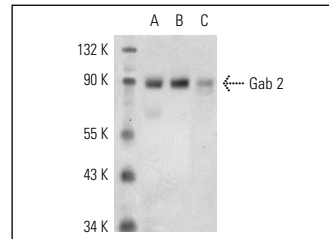
## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## DATA



Gab 2 (M-19): sc-9313. Western blot analysis of Gab 2 expression in K-562 (A) and MCP-5 (B) whole cell lysates and mouse brain tissue extract (C).

## SELECT PRODUCT CITATIONS

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- Verma-Gaur, J., et al. 2012. Negative feedback regulation of antigen receptors through calmodulin inhibition of E2A. *J. Immunol.* 188: 6175-6183.
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