



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Anti-GIT1 Antibody [S39B-8]

Mouse Anti-Rat GIT1 Monoclonal IgG1  
Catalog No. SMC-413



Discovery through partnership | Excellence through quality

## Overview

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### Product Name

GIT1 Antibody

### Description

Mouse Anti-Rat GIT1 Monoclonal IgG1

### Species Reactivity

Human, Mouse, Rat

### Applications

WB, ICC/IF, IP

### Antibody Dilution

WB (1:1000); optimal dilutions for assays should be determined by the user.

### Host Species

Mouse

### Immunogen Species

Rat

### Immunogen

Fusion protein amino acids 375-770 (C-terminus) of rat GIT1

### Concentration

1 mg/ml

### Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

## Properties

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### Storage Buffer

PBS pH7.4, 50% glycerol, 0.09% sodium azide

### Storage Temperature

-20°C

### Shipping Temperature

Blue Ice or 4°C

### Purification

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Protein G Purified

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**Clonality**

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Monoclonal

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**Clone Number**

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S39B-8

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**Isotype**

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IgG1

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**Specificity**

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Detects ~90kDa. Does not cross-react with GIT2.

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**Cite This Product**

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Mouse Anti-Rat GIT1 Monoclonal, Clone S39B-8 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-413)

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**Certificate Of Analysis**

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1 µg/ml of SMC-413 was sufficient for detection of GIT1 in 10 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

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**Biological Description**

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**Alternative Names**

ARF GAP GIT1 Antibody, ARF GTPase-activating proteinAntibody, CAT1 Antibody, GRK-interacting protein 1 Antibody, ARF GTPase-activating protein GIT1 Antibody, Cool-associated and tyrosine-phosphorylated protein 1 Antibody, G protein-coupled receptor kinase-interactor 1 Antibody, GIT 1 Antibody

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**Research Areas**

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Cell Signaling, Cell Structure, Cytoplasmic Markers, Neuroscience, Phosphorylation, Post-translational Modifications, Scaffolds

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**Cellular Localization**

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Cytoplasm

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**Accession Number**

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NP\_1140021.1

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**Gene ID**

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83709

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**Swiss Prot**

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Q9Z272.1

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**Scientific Background**

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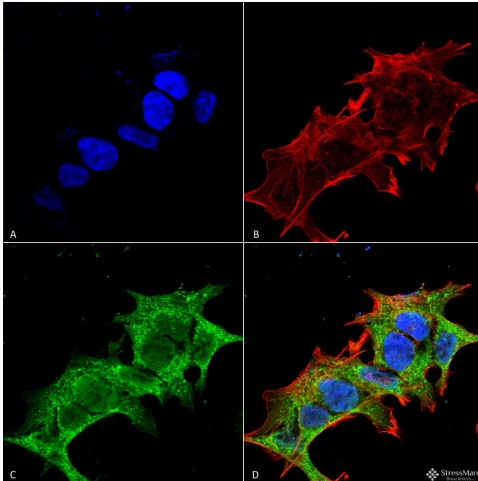
G-protein coupled receptor (GPCR) kinase interacting proteins 1 and 2 (GIT-1 and GIT-2) are highly conserved, ubiquitous scaffold proteins involved in localized signaling to help regulate focal contact assembly and cytoskeletal dynamics. GIT proteins contain multiple interaction domains that allow interaction with small GTPases (including ARF, Rac and cdc42), kinases (such as PAK and MEK), the Rho family GEF PIX, and the focal adhesion protein paxillin (reviewed in 1). GIT-1 is localized to focal adhesions, cytoplasmic complexes and membrane protrusions, and regulates cell protrusion formation and cell migration (2). GIT-1 has also been implicated in neuronal functions including synapse formation (3) and the pathology of Huntington disease (4). Huntington disease is a genetic neurodegenerative condition involving a mutation in the huntington gene. The huntington gene product (htt) is ubiquitinated and degraded in human Huntington disease brains (5). Htt interacts directly with GIT-1 causing enhanced htt proteolysis, indicating that GIT-1 distribution and function may contribute to Huntington disease pathology (4).

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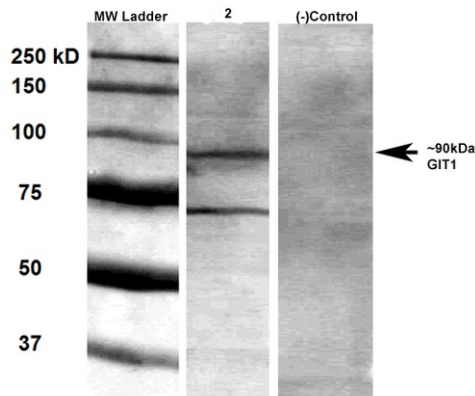
## References

1. Hoefen R.J. and Berk B.C. (2006) J. Cell Sci. 119: 146-1475.
2. Manabe R., et al. (2002) J. Cell Sci. 115: 1497-1510.
3. Zhang H., et al. (2003) J. Cell Biol. 161: 131-142.
4. Goehler H., et al. (2004) Mol. Cell 15: 853-865.
5. Mende-Mueller L.M., et al. (2001) J. Neurosci. 21: 1830-1837.

## Product Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GIT1 Monoclonal Antibody, Clone S39B-8 (SMC-413). Tissue: Neuroblastoma cell line SK-N-BE. Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-GIT1 Monoclonal Antibody (SMC-413) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000; 1:5000 for 60 min RT, 5 min RT. Localization: Cytoplasm. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) GIT1 Antibody (D) Composite.



Western Blot analysis of Rat brain membrane lysate showing detection of GIT1 protein using Mouse Anti-GIT1 Monoclonal Antibody, Clone S39B-8 (SMC-413). Primary Antibody: Mouse Anti-GIT1 Monoclonal Antibody (SMC-413) at 1:1000.

## Product Citations (0)

Currently there are no citations for this product.

## Reviews

There are no reviews yet.