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Datasheet for ABIN1686622
anti-GIT1 antibody (AA 375-770)

3 Images

Overview

Quantity:	100 µg
Target:	GIT1
Binding Specificity:	AA 375-770
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This GIT1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Fusion protein amino acids 375-770 (C-terminus) of rat GIT1
Clone:	S39B-8
Isotype:	IgG1
Specificity:	Detects ~90 kDa. Does not cross-react with GIT2.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

Target Details

Target:	GIT1
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Target Details

Alternative Name: [GIT1 \(GIT1 Products\)](#)

Background: 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).

Gene ID: 83709

NCBI Accession: [NP_114002](#)

UniProt: [Q9Z272](#)

Application Details

Application Notes:

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

Comment: 1 µg/ml of ABIN1686622 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.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

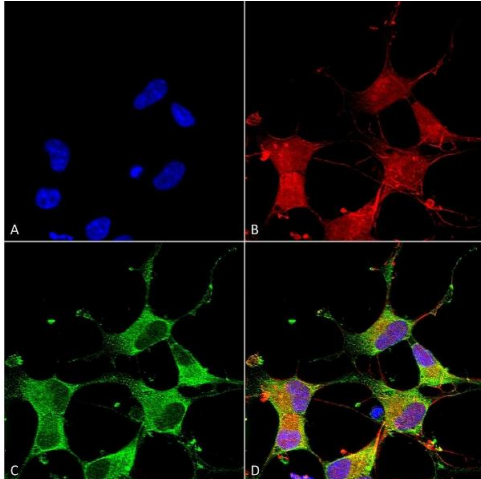
Handling

should be handled by trained staff only.

Storage: -20 °C

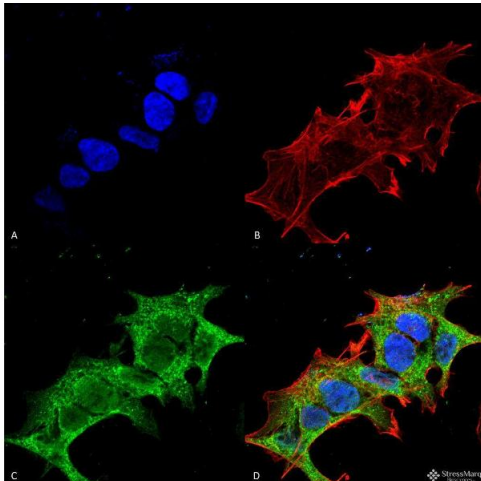
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Images



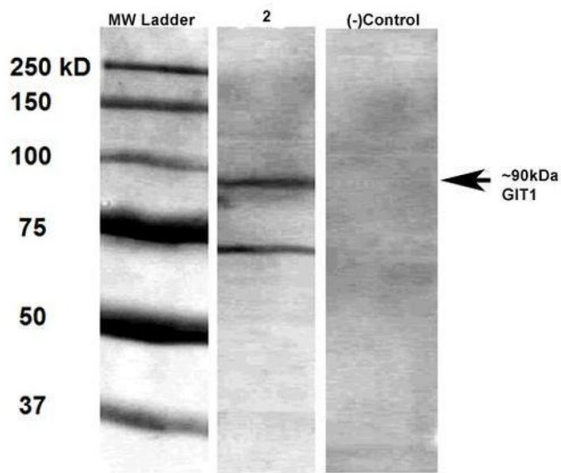
Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GIT1 Monoclonal Antibody, Clone S39B-8 (ABIN1686622). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-GIT1 Monoclonal Antibody (ABIN1686622) at 1:50 for overnight at 4°C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain, Hoechst (blue) nuclear stain at 1:800, 1.6 mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) GIT1 Antibody (D) Composite.



Immunofluorescence (fixed cells)

Image 2. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GIT1 Monoclonal Antibody, Clone S39B-8. Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-GIT1 Monoclonal Antibody 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 Blotting

Image 3. Western Blot analysis of Rat brain membrane lysate showing detection of GIT1 protein using Mouse Anti-GIT1 Monoclonal Antibody, Clone S39B-8 . Primary Antibody: Mouse Anti-GIT1 Monoclonal Antibody at 1:1000.