

# Product Datasheet

## **GIT1 Antibody (S39B-8) - BSA Free** **NBP2-22423**

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP2-22423**

GIT1 Antibody (S39B-8) - BSA Free

**Product Information**

<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	S39B-8
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS (pH 7.4), 50% Glycerol

**Product Description**

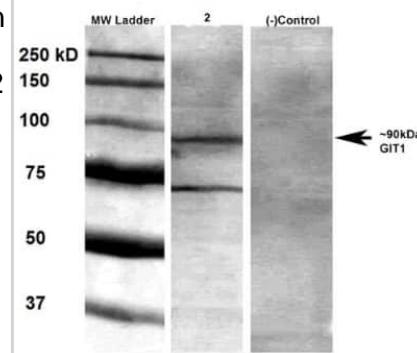
<b>Description</b>	Novus Biologicals Knockout (KO) Validated Mouse GIT1 Antibody (S39B-8) - BSA Free (NBP2-22423) is a monoclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-GIT1 Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	28964
<b>Gene Symbol</b>	GIT1
<b>Species</b>	Human, Mouse, Rat
<b>Reactivity Notes</b>	Mouse reactivity reported in scientific literature (PMID: 30546041).
<b>Specificity/Sensitivity</b>	detects approx 90kDa. Does not cross-react with GIT2.
<b>Immunogen</b>	Fusion protein amino acids 375-770 (C-terminus) of rat GIT1

**Product Application Details**

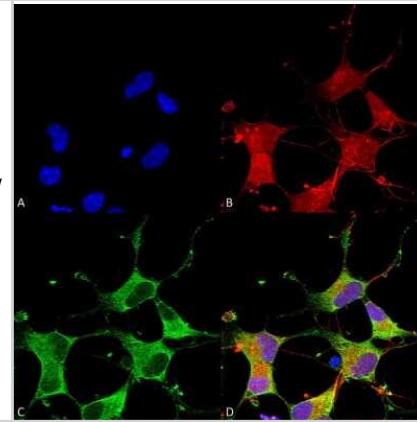
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, Knockout Validated
<b>Recommended Dilutions</b>	Western Blot 1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Immunohistochemistry-Frozen, Knockout Validated
<b>Application Notes</b>	1 ug/ml of GIT1 Antibody was sufficient for detection of GIT1 in 10 ug of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary Antibody. Use in Immunohistochemistry-Frozen reported in scientific literature (PMID:31908016). Use in KO reported in secitific publication PMID: 32460388

## Images

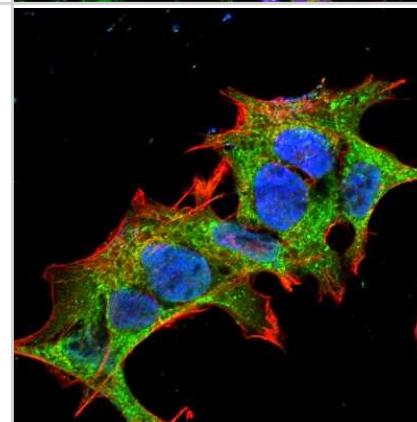
Western Blot: GIT1 Antibody (S39B-8) [NBP2-22423] - Western Blot analysis of Rat brain membrane lysate showing detection of GIT1 protein using Mouse Anti-GIT1 Monoclonal Antibody, Clone S39B-8 (NBP2-22423). Primary Antibody: Mouse Anti-GIT1 Monoclonal Antibody (NBP2-22423) at 1:1000.



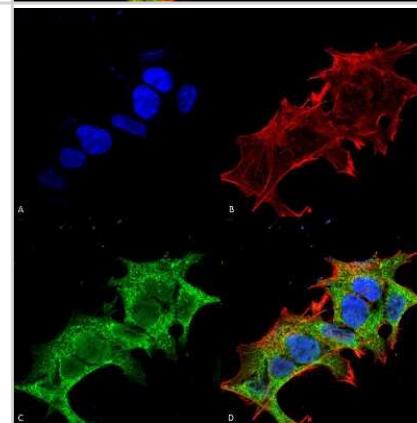
Immunocytochemistry/Immunofluorescence: GIT1 Antibody (S39B-8) [NBP2-22423] - Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GIT1 Monoclonal Antibody, Clone S39B-8 (NBP2-22423). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-GIT1 Monoclonal Antibody (NBP2-22423) at 1:50 for overnight at 4C 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, 1.6mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) GIT1 Antibody (D) Composite.



Immunocytochemistry/Immunofluorescence: GIT1 Antibody (S39B-8) [NBP2-22423] - 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.



Immunocytochemistry/Immunofluorescence: GIT1 Antibody (S39B-8) [NBP2-22423] - Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GIT1 Monoclonal Antibody, Clone S39B-8 (NBP2-22423). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-GIT1 Monoclonal Antibody (NBP2-22423) 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.



## Publications

Wan B, Li C, Wang M et al. GIT1 protects traumatically injured spinal cord by prompting microvascular endothelial cells to clear myelin debris Aging (Albany NY) 2021-03-15 [PMID: 33621952]

Schlienger, S;Yam, PT;Balekoglu, N;Ducuing, H;Michaud, JF;Makihara, S;Kramer, DK;Chen, B;Fasano, A;Berardelli, A;Hamdan, FF;Rouleau, GA;Srour, M;Charron, F; Genetics of mirror movements identifies a multifunctional complex required for Netrin-1 guidance and lateralization of motor control Science advances 2023-05-12 [PMID: 37172092] (Western Blot, Immunohistochemistry-Frozen, Proximity Ligation Assay, Immunocytochemistry/ Immunofluorescence, Mouse)

Zhao SJ, Liu H, Chen J et al. Macrophage GIT1 contributes to bone regeneration by regulating inflammatory responses in an ERK/NRF2-dependent way J. Bone Miner. Res. 2020-05-27 [PMID: 32460388] (WB, KO, Mouse)

Huang Y, Gu C, Wang Q, et al. The protective effort of GPCR kinase 2 interacting protein 1 in neurons via promoting Beclin1 Parkin induced mitophagy at the early stage of spinal cord ischemia reperfusion injury FASEB j. 2019-12-27 [PMID: 31908016] (ICC/IF, WB, IHC-F, Mouse)

Li L, Tang P, Zhou Z et al. GIT1 regulates angiogenic factor secretion in bone marrow mesenchymal stem cells via NF-kappa B/Notch signalling to promote angiogenesis Cell Prolif. [PMID: 31502302] (IP)

Chen J, Wang Q, Zhou W et al. GPCR kinase 2-interacting protein-1 protects against ischemia-reperfusion injury of the spinal cord by modulating ASK1/JNK/p38 signaling FASEB J. [PMID: 29912587]

Zhao SJ, Kong FQ, Cai W et al. GIT1 contributes to autophagy in osteoclast through disruption of the binding of Beclin1 and Bcl2 under starvation condition Cell Death Dis 2018-12-13 [PMID: 30546041] (WB, Mouse)



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## Products Related to NBP2-22423

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP1-85798PEP	GIT1 Recombinant Protein Antigen

## Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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