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GIT-1 Antibody

Store at -20C
#2919

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H M R Hm Mk B	Sensitivity: Endogenous	MW (kDa): 95	Source/Isotype: Rabbit	UniProt ID: #Q9Y2X7	Entrez-Gene Id: 28964
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Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

GIT-1 Antibody recognizes endogenous levels of total GIT-1 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human GIT-1. Antibodies are purified using peptide affinity chromatography.

Background

G protein-coupled receptor (GPCR) kinase interacting proteins 1 and 2 (GIT1 and GIT2) 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). GIT1 is localized to focal adhesions, cytoplasmic complexes and membrane protrusions, and regulates cell protrusion formation and migration (2). GIT1 has also been implicated in neuronal functions including synapse formation (3) and the pathology of Huntington's disease (HD) (4). HD is a genetic neurodegenerative condition involving a mutation in the *htt* gene encoding the protein huntingtin. Huntingtin is ubiquitinated and degraded in human HD brains (5). Huntingtin interacts directly with GIT1, causing enhanced proteolysis and indicating that GIT1 distribution and function may contribute to HD pathology (4).

Background References

1. Hoefen, R.J. and Berk, B.C. (2006) *J. Cell Sci.* 119, 1469-1475.
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.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Hm:** Hamster **Mk:** Monkey **B:** Bovine

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