Human GIT1 Alexa Fluor® 700-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 924616R

Catalog Number: FAB85081N

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human GIT1 in direct ELISAs. In sandwich ELISAs, this antibody is specific for human GIT1 when paired with the suggested capture antibody.
Source	Monoclonal Mouse IgG_{2B} Clone # 924616R
Purification	Protein A or G purified from cell culture supernatant
Immunogen	*E. coli*-derived recombinant human GIT1 Ser485-Asp636 Accession # Q9Y2X7
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

ELISA	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

GIT1 (ARF GTPase-activating protein GIT1) is a 95 kDa protein that belongs to ADP ribosylation factor family and is localized to focal adhesions, cytoplasmic complexes and membrane protrusions, and regulates cell protrusion formation and cell migration. 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. GIT1 has also been implicated in neuronal functions including synapse formation and the pathology of Huntington disease. 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. Htt interacts directly with GIT1 causing enhanced htt proteolysis, indicating that GIT1 distribution and function may contribute to Huntington disease pathology. Within amino acids (aa) 485-636, human and mouse GIT1 share 93% aa sequence identity.

PRODUCT SPECIFIC NOTICES

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Bio-Techne®
Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956
USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475