ARF Gtpase-Activating Protein GIT2 (GIT2) ELISA Kit for Rat

PRODUCT OVERVIEW

Product Name	ARF GTPase-activating protein GIT2 (GIT2), ELISA Kit
Full Product Name	Rat ARF GTPase-activating protein GIT2 (GIT2) ELISA Kit
Product Gene Name	GIT2 elisa kit
Species Reactivity	Rat
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	70,183 Da
OMIM	608564
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Product Categories/Family for GIT2 elisa kit	Signal Transduction
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for GIT2 elisa kit	MBS7209855 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the ARF GTPase-activating protein GIT2 (GIT2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing GIT2. The ELISA analytical biochemical technique of the MBS7209855 kit is based on GIT2 antibody-GIT2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect GIT2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, GIT2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of GIT2 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GIT2. It may not necessarily be applicable to this product.

NCBI GI #	206725422
NCBI GeneID	9815
NCBI Accession #	NP_001128686.1
UniProt Secondary Accession #	Q86U59; Q96CI2; Q9BV91; Q9Y5V2
UniProt Related Accession #	Q14161
GenBank Nucleotide #	NM_001135214.1
NCBI Official Full Name	ARF GTPase-activating protein GIT2 isoform 5
NCBI Official Synonym Full Names	G protein-coupled receptor kinase interacting ArfGAP 2
NCBI Official Symbol	GIT2

NCBI Official Synonym Symbols	CAT2; CAT-2
UniProt Protein Name	ARF GTPase-activating protein GIT2
UniProt Synonym Protein Names	Cool-interacting tyrosine-phosphorylated protein 2; CAT-2; CAT2; G protein-coupled receptor kinase-interactor 2; GRK-interacting protein 2
Protein Family	ARF GTPase-activating protein
UniProt Gene Name	GIT2
UniProt Synonym Gene Names	KIAA0148; ARF GAP GIT2; CAT-2; CAT2
UniProt Entry Name	GIT2_HUMAN
NCBI Protein Information	ARF GTPase-activating protein GIT2; ARF GAP GIT2; GRK-interacting protein 2; G protein-coupled receptor kinase-interactor 2; cool-associated, tyrosine phosphorylated protein 2; cool-interacting tyrosine-phosphorylated protein 2
NCBI Summary for GIT2	This gene encodes a member of the GIT protein family, which interact with G protein-coupled receptor kinases and possess ADP-ribosylation factor (ARF) GTPase-activating protein (GAP) activity. GIT proteins traffic between cytoplasmic complexes, focal adhesions, and the cell periphery, and interact with Pak interacting exchange factor beta (PIX) to form large oligomeric complexes that transiently recruit other proteins. GIT proteins regulate cytoskeletal dynamics and participate in receptor internalization and membrane trafficking. This gene has been shown to repress lamellipodial extension and focal adhesion turnover, and is thought to regulate cell motility. This gene undergoes extensive alternative splicing to generate multiple isoforms, but the full-length nature of some of these variants has not been determined. The various isoforms have functional differences, with respect to ARF GAP activity and to G protein-coupled receptor kinase 2 binding. [provided by RefSeq, Sep 2008]
UniProt Comments for GIT2	GIT2: possesses ADP-ribosylation factor (ARF) GTPase-activating protein (GAP) activity. Interacts with G protein-coupled receptor kinases. Associates with paxillin. Also interacts with PIX exchange factors. Regulates Golgi and actin cytoskeletal organization. Important in integrin-mediated cell adhesion. Ten alternatively spliced isoforms have been described and additional isoforms seem to exist. Contains 1 Arf-GAP domain and 3 ANK repeats. Protein type: Motility/polarity/chemotaxis; GAPs, ARF; GAPs Chromosomal Location of Human Ortholog: 12q24.1 Cellular Component: nucleoplasm; focal adhesion Molecular Function: protein binding; zinc ion binding Biological Process: behavioral response to pain; regulation of G-protein coupled receptor protein signaling pathway; positive regulation of GTPase activity
Research Articles on GIT2	**1.** ADMA and L-arginine are substrates of human CAT2A, CAT2B, OCT2 and MATE1. Transport kinetics of CAT2A, CAT2B, and OCT2 indicate a low affinity, high capacity transport, which may be relevant for renal and hepatic elimination of ADMA or L-arginine
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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