Anti-GIT1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015843

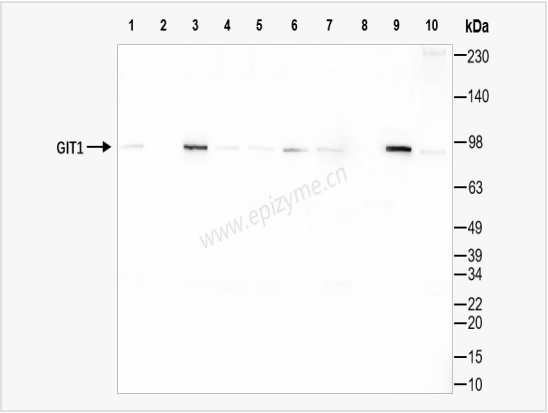
Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	60A70M55
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human GIT1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-GIT1 Rabbit mAb [60A70M55] is for research use only and not for use in diagnostic or therapeutic procedures.

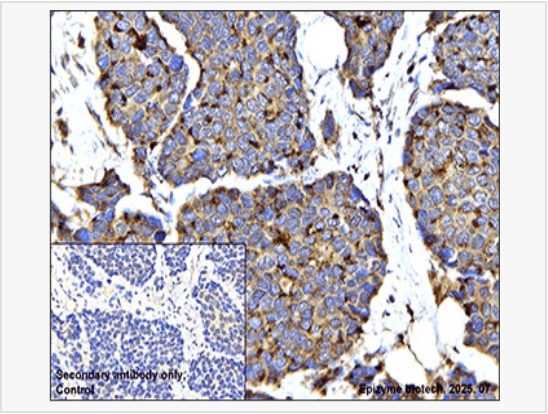
Protein Information

Synonyms	ARF GTPase-activating protein GIT1; ARF GAP GIT1; Cool-associated and tyrosine-phosphorylated protein 1; G protein-coupled receptor kinase-interactor 1; GRK-interacting protein 1; p95-APP1; CAT-1; CAT1; GIT1.
Calculated MW	Calculated MW: 84 kDa; Observed MW: 95 kDa
Uniprot ID	Q9Y2X7
Gene ID	28964
Background	Enables gamma-tubulin binding activity. Involved in positive regulation of microtubule nucleation and regulation of cytokinesis. Located in several cellular components, including focal adhesion; microtubule cytoskeleton; and mitochondrion. Implicated in attention deficit hyperactivity disorder. Biomarker of Huntington's disease. [provided by Alliance of Genome Resources, Apr 2022]
Cellular Location	Cytoplasm.Synapse.Presynapse.Postsynapse.Postsynaptic density.Cell junction.Focal adhesion.Cell projection.Lamellipodium.Cytoplasm.Cytoskeleton.Microtubule organizing center.Centrosome.Cytoplasm.Cytoskeleton.Spindle pole.Cycles between at least 3 distinct intracellular compartments, including focal adhesions, cytosolic complexes, containing at least PXN/paxillin, ARHGEF7 and PAK1, and membrane protrusions. During cell migration, moves from the disassembling adhesions into the cytosol and towards the leading edge. In adherent cells, localizes to adhesions. Recruitment to adhesions may be mediated by RAC and active tyrosine-phosphorylated PXN (PubMed:11896197). May be present in both excitatory and inhibitory synapses. In hippocampal neurons, recruitment of GIT1 to synapses is regulated by ephrinB activation and ephrinB downstream effector GRB4/NCK2. In hippocampal neurons, partially colocalizes with PCLO (By similarity). Interaction with GRIN3A limits GIT1 synaptic localization (By similarity). Localization to the centrosome does not depend upon the presence of

Validation Images



Western Blot - Anti-GIT1 Rabbit mAb [60A70M55]
All lanes: R015843 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: 293T (Human embryonic kidney cell) whole cell lysates
Lane 5: K562 (Human chronic myeloid leukemia cell) whole cell lysates
Lane 6: SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysates
Lane 7: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 8: Mouse heart whole tissue lysates
Lane 9: Mouse brain whole tissue lysates
Lane 10: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 84 kDa
Observed band size: 95 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-GIT1 Rabbit mAb [60A70M55]
Sample: Paraformaldehyde-fixed, paraffin embedded human breast cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015843 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.