

GIT1 Rabbit pAb

CatalogNo: YT1908

| Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 95kD (Observed)

Isotype

- IgG

| Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

ELISA 1:20000

IF 1:50-200

| Storage

Storage*

-15°C to -25°C/1 year (Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Basic Information

Clonality

Polyclonal

| Immunogen Information

Immunogen

The antiserum was produced against synthesized peptide derived from human GIT1. AA range: 561-610

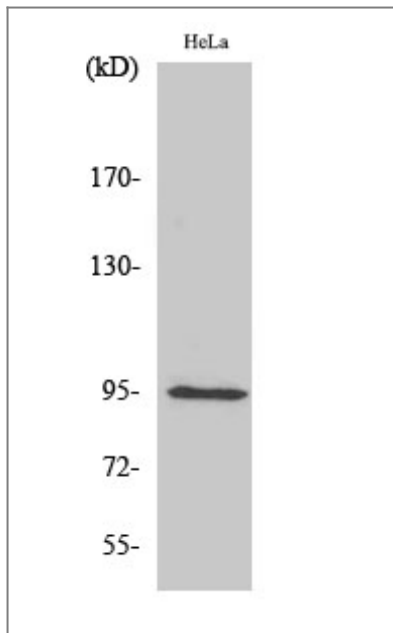
Specificity

GIT1 Polyclonal Antibody detects endogenous levels of GIT1 protein.

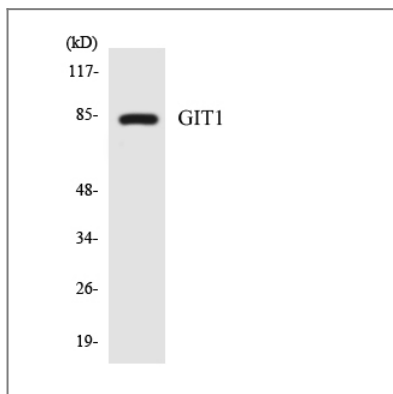
| Target Information

Gene name	GIT1		
Protein Name	ARF GTPase-activating protein GIT1		
	Organism	Gene ID	UniProt ID
	Human	28964 ;	Q9Y2X7 ;
	Mouse	216963 ;	Q68FF6 ;
	Rat	83709 ;	Q9Z272 ;
Cellular Localization	<p>Cytoplasm . Cell junction, synapse . Cell junction, synapse, presynapse . Cell junction, synapse, postsynapse . Cell junction, synapse, 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 gamma-tubulin (PubMed:27012601). .</p>		
Tissue specificity	Brain,Epithelium,Human testis,Liver,Lung,Melanoma,Muscle,Platelet,Skin,		
Function	<p>Domain:The paxillin-binding domain is masked in the full-length protein and is regulated by ARHGEF6.,Function:GTPase-activating protein for the ADP ribosylation factor family. May serve as a scaffold to bring together molecules to form signaling modules controlling vesicle trafficking, adhesion and cytoskeletal organization. Increases the speed of cell migration, as well as the size and rate of formation of protrusions, possibly by targeting PAK1 to adhesions and the leading edge of lamellipodia. Sequesters inactive non-tyrosine-phosphorylated paxillin in cytoplasmic complexes.,PTM:Phosphorylated on tyrosine residues by PTK2 and SRC in growing fibroblasts. Tyrosine-phosphorylation is increased following cell spreading on fibronectin, decreased in cells arrested in mitosis and increased in the ensuing G1 phase.,similarity:Contains 1 Arf-GAP domain.,similarity:Contains 3 ANK repeats.,subcellular location:Cycles between at least 3 distinct intracellular compartments, including focal adhesions, cytoplasmic complexes and membrane protrusions. During cell migration, when cells detach, moves from the adhesions into the cytoplasmic complexes towards the leading edge, while, when cells adhere, it is found in vinculin-containing adhesions. Recruitment to adhesions may be mediated by active tyrosine-phosphorylated paxillin.,subunit:Interacts with G protein-coupled receptor kinases: ADRBK1/GRK2, PPFIA1 and PPFIA4. Interacts with ARHGEF6/alpha-PIX, with ARHGEF7/beta-PIX, with PXN/paxillin and with PTK2/FAK (By similarity). Component of cytoplasmic complexes, which also contain PXN, ARHGEF6 and PAK1. Interacts with TGFB11.,</p>		

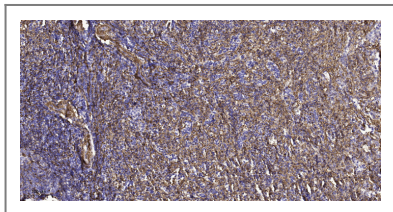
| Validation Data



Western Blot analysis of HepG2 cells using GIT1 Polyclonal Antibody



Western blot analysis of the lysates from 293 cells using GIT1 antibody.



Immunohistochemical analysis of paraffin-embedded human spleen tissue. 1,primary Antibody was diluted at 1:200(4° overnight). 2, Sodium citrate pH 6.0 was used for antigen retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200

| Contact information

Orders: order@immunoway.com
Support: tech@immunoway.com
Telephone: 877-594-3616 (Toll Free), 408-747-0185
Website: <http://www.immunoway.com>
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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GIT1 Rabbit pAb