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GIPC1 Rabbit pAb

Catalog # AP98569

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O14908
Other Accession	O14908
Reactivity	Human
Predicted	Rat, Mouse, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	36049
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GIPC1
Epitope Specificity	101-160/333
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the GIPC family. Contains 1 PDZ (DHR) domain.
SUBUNIT	Interacts with GLUT1 (C-terminus), ACTN1, KIF1B, MYO6, PLEKHG5, SDC4/syndecan-4 and SEMA4C/semaphorin-4C (By similarity). Interacts with RGS19 C-terminus. Interacts with HTLV-I Tax through the PDZ domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	GIPC, for GAIP interacting protein at the C terminus (also designated SEMCAP-1 or synectin), is a PDZ domain containing protein that interacts with RGS-GAIP, a GTPase-activating protein (GAP) for G(a i) subunits. GIPC was also identified as TIP-2, a protein that interacts with the viral oncoprotein TAX, which transactivates viral and cellular promoters through interactions with various transcription factors. PDZ domain-containing proteins are primarily localized to cell-cell junctions in epithelial cells and neurons where they coordinate the assembly of multiprotein complexes. GIPC specifically localizes to clusters of vesicles near the plasma membrane and participates in G protein-coupled signaling pathway involved in regulating clathrin-coated vesicular trafficking. GIPC also associates with membrane bound semaphorin F (M-SemF), which is involved in neuronal axon growth, and it appears to regulate the subcellular distribution of M-SemF in the brain.

Additional Information

Gene ID	10755
Other Names	C19orf3; GIPC; GLUT1CBP; Hs.6454; IIP-1; NIP; OPDM2; RGS19IP1; SEMCAP; SYNECTIIN; SYNECTIN; TIP-2; Rgs19; GIPC1_HUMAN; GIPC1; GAIP C-terminus-interacting protein; RGS-GAIP-interacting protein; RGS19-interacting protein 1; Tax interaction protein 2 (TIP-2); GIPC1_MOUSE; SemaF cytoplasmic domain-associated protein 1 (SEMCAP-1); Semcap1;

	GIPC1_RAT; GLUT1 C-terminal-binding protein (GLUT1CBP); GIPC PDZ domain containing family member 1; chromosome 19 open reading frame 3; regulator of G-protein signalling 19 interacting protein 1; GIPC PDZ domain containing family, member 1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	GIPC1
Synonyms	C19orf3, GIPC, RGS19IP1
Function	May be involved in G protein-linked signaling.
Cellular Location	Cytoplasm. Membrane; Peripheral membrane protein
Tissue Location	Widely expressed (PubMed:9770488). Expressed in skeletal muscle (at protein level) (PubMed:32413282)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.