Best Tools for immunology Research

RGS7 Polyclonal Antibody

Catalog No :	YT4076
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA;IHC
Target :	RGS7
Gene Name :	RGS7
Protein Name :	Regulator of G-protein signaling 7
Human Gene Id :	6000
Human Swiss Prot No :	P49802
Mouse Gene Id :	24012
Mouse Swiss Prot No :	O54829
Rat Gene Id :	54296
Rat Swiss Prot No :	P49803
Immunogen :	The antiserum was produced against synthesized peptide derived from human RGS7. AA range:155-204
Specificity :	RGS7 Polyclonal Antibody detects endogenous levels of RGS7 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000;IHC 1:50-300; ELISA 2000-20000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

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

Observed Band : 65kD

Background : function:Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. Activity on G(o)-alpha is specifically enhanced by the RGS6/GNG5 dimer. May play a role in synaptic vesicle exocytosis. May play important role in the rapid regulation of neuronal excitability and the cellular responses to short-lived stimulations.,PTM:Palmitoylated.,PTM:Phosphorylation and subsequent interaction with 14-3-3 proteins inhibits GAP activity.,similarity:Contains 1 DEP domain.,similarity:Contains 1 G protein gamma domain.,similarity:Contains 1 RGS domain.,subunit:Heterodimer with GNG5. Interacts with RGS7BP, leading to regulate the subcellular location of the heterodimer formed with Gbeta5 (By similarity). Interacts with 14-3-3 protein Tau and SNAP25BP.,

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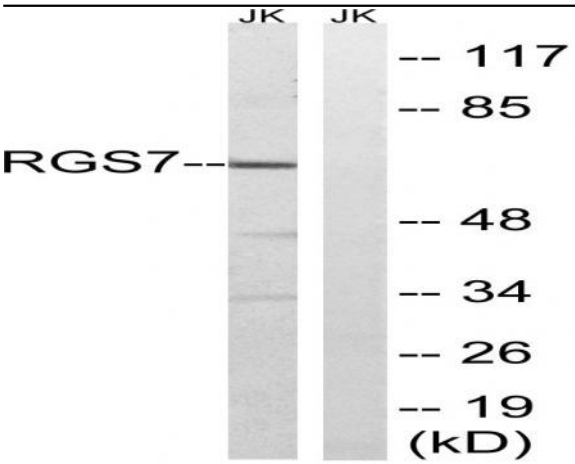
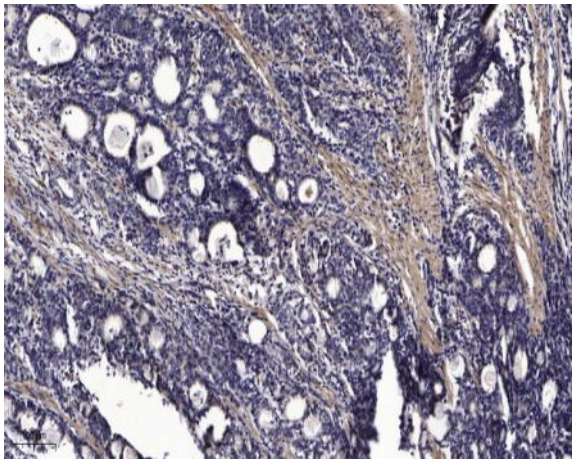
Subcellular Location : Cytoplasm, cytosol . Cytoplasm . Cell membrane . Membrane ; Peripheral membrane protein ; Cytoplasmic side . Interaction with PKD1 promotes location at the cell membrane (PubMed:10339594). Interaction with RGS7BP promotes location at the cell membrane (PubMed:15897264). .

Expression : Brain,

Products Images



Western blot analysis of lysates from Jurkat cells, using RGS7 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human Gastric adenocarcinoma. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).