





Rac GAP1 Polyclonal Antibody

Catalog No YP-Ab-16215 Isotype IgG Reactivity Human;Mouse;Rat;Monkey Applications WB;IHC;IF;ELISA Gene Name RACGAP1 Protein Name Rac GTPase-activating protein 1 Immunogen The antiserum was produced against synthesized peptide derived from human GTPase Activating Protein. AA range:353-402 Specificity Rac GAP1 Polyclonal Antibody detects endogenous levels of Rac GAP1 protein. Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. Source Polyclonal, Rabbit,IgG Purification The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. Dilution Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300 Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications. Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms RACGAP1; KIAA1478; MGCRACGAP; Rac GTPase-activating protein 1; Male germ cell RacGap; MgcRacGAP; Protein CYK4 homolg; CYK4; HsCYK-4 Observed Band 72kD Cell Pathway Nucleus . Cytoplasm. Cytoplasm, cytoskeleton, spindle . Cytoplasmic side. Coloc		
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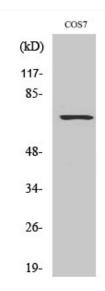


Function	domain: The coiled coil region is indispensible for localization to the midbody during cytokinesis., function: Essential for the early stages of embryogenesis and may play a role in the microtubule-dependent steps in cytokinesis. Plays key roles in controlling cell growth and differentiation of hematopoietic cells through mechanisms other than regulating Rac GTPase activity. Also involved in the regulation of growth-related processes in adipocytes and myoblasts. May be involved in regulating spermatogenesis and in the RACGAP1 pathway in neuronal proliferation. Shows strong GAP (GTPase activation) activity towards CDC42 and RAC1 and less towards RHOA. Required for initiation of cleavage furrow ingression by regulating ECT2 and for assembly of the contractile ring. May play a role in regulating cortical activity through RHOA during cytokinesis. May participate in the regulation of sulfate tra
Background	This gene encodes a GTPase-activating protein (GAP) that is a compoment of the centralspindlin complex. This protein binds activated forms of Rho GTPases and stimulates GTP hydrolysis, which results in negative regulation of Rho-mediated signals. This protein plays a regulatory role in cytokinesis, cell growth, and differentiation. Alternatively spliced transcript variants have been found for this gene. There is a pseudogene for this gene on chromosome 12. [provided by RefSeq, Feb 2016],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

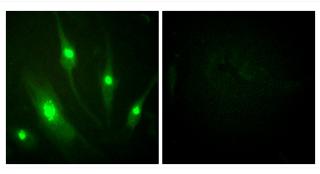




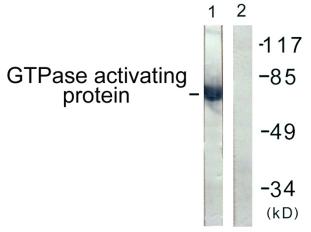
Products Images



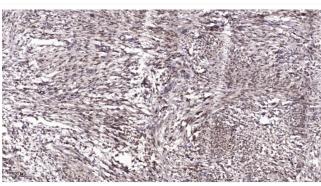
Western Blot analysis of various cells using Rac GAP1 Polyclonal Antibody



Immunofluorescence analysis of HeLa cells, using GTPase Activating Protein Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from COS7 cells, using GTPase Activating Protein Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human Colon cancer. 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).



UpingBio technology Co.,Ltd

(Tel: 400-999-8863 **(** Emall:Upingbio.163.com



