

## Product datasheet for **CF811639**

### **RACGAP1 Mouse Monoclonal Antibody [Clone ID: OTI3A5]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI3A5
<b>Applications:</b>	IHC, WB
<b>Recommended Dilution:</b>	WB 1:500~2000, IHC 1:2000
<b>Reactivity:</b>	Human, Monkey, Mouse, Rat
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG2b
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Human recombinant protein fragment corresponding to amino acids 123-238 of human RACGAP1 (NP_001119575) produced in E.coli.
<b>Formulation:</b>	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
<b>Reconstitution Method:</b>	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Gene Name:</b>	Rac GTPase activating protein 1
<b>Database Link:</b>	<a href="#">NP_001119575</a> <a href="#">Entrez Gene 26934 Mouse</a> <a href="#">Entrez Gene 315298 Rat</a> <a href="#">Entrez Gene 711887 Monkey</a> <a href="#">Entrez Gene 29127 Human</a> <a href="#">Q9H0H5</a>



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**Background:**

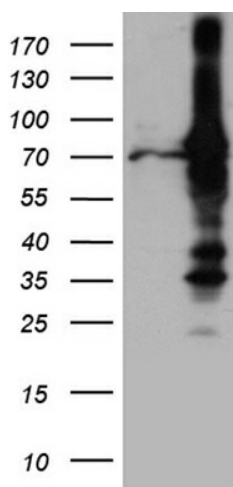
This gene encodes a GTPase-activating protein (GAP) that is a component of the centralspindlin complex. This protein binds activated forms of Rho GTPases and stimulates GTP hydrolysis, which results in negative regulation of Rho-mediated signals. This protein plays a regulatory role in cytokinesis, cell 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]

**Synonyms:**

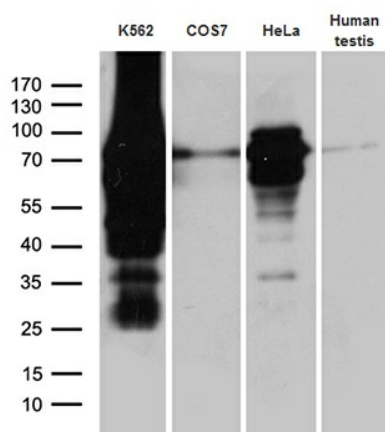
CYK4; HsCYK-4; ID-GAP; MgcRacGAP

**Protein Families:**

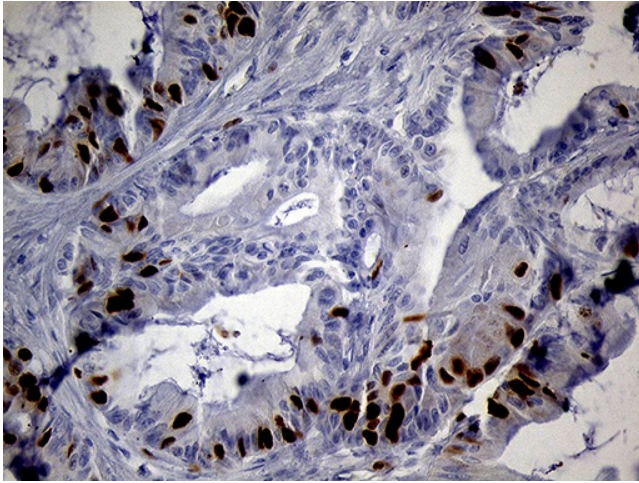
Druggable Genome

**Product images:**


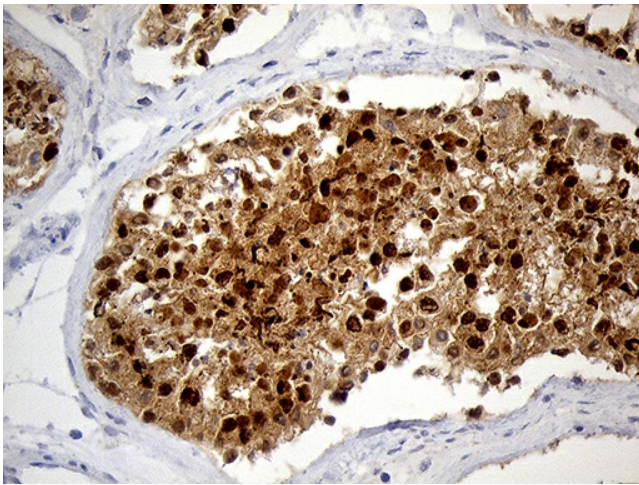
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RACGAP1 (Cat# [RC226045], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RACGAP1 (Cat# [TA811639])(1:2000). Positive lysates [LY426645] (100ug) and [LC426645] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 3 different cell lines and human testis tissue lysate by using anti-RACGAP1 monoclonal antibody (1:500).



Immunohistochemical staining of paraffin-embedded Carcinoma of Human spleen tissue within the normal limits using anti-RACGAP1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human testicle tissue within the normal limits using anti-RACGAP1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.