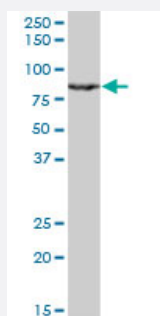


RACGAP1 monoclonal antibody (M01), clone 1G6

Catalog # H00029127-M01

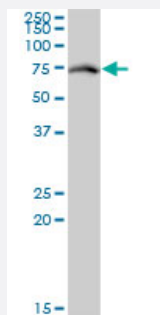
Size 100 ug

Applications



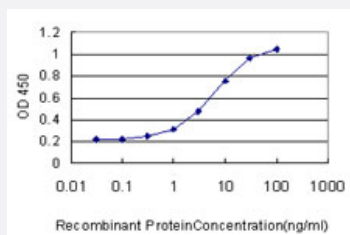
Western Blot (Cell lysate)

RACGAP1 monoclonal antibody (M01), clone 1G6. Western Blot analysis of RACGAP1 expression in Jurkat (Cat # L017V1).



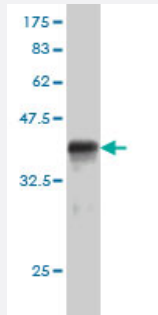
Western Blot (Cell lysate)

RACGAP1 monoclonal antibody (M01), clone 1G6. Western Blot analysis of RACGAP1 expression in 293 (Cat # L026V1).



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged RACGAP1 is approximately 0.3ng/ml as a capture antibody.



Western Blot detection against Immunogen (37.73 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant RACGAP1.
Immunogen	RACGAP1 (AAH32754, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MDTMMLNVRNLFEQLVRRVEILSEGNEVQFIQLAKDFEDFRKKWQRTDHELKGYKDLLMKAETE RSALDVKLKHARNQVDVEIKRRQRAEADCEKLERQIQLIREMLMCD
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (84); Rat (84)
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.73 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

RACGAP1 monoclonal antibody (M01), clone 1G6. Western Blot analysis of RACGAP1 expression in Jurkat (Cat # L017V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

RACGAP1 monoclonal antibody (M01), clone 1G6. Western Blot analysis of RACGAP1 expression in 293 (Cat # L026V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged RACGAP1 is approximately 0.3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — RACGAP1

Entrez GeneID [29127](#)

GeneBank Accession# [BC032754](#)

Protein Accession# [AAH32754](#)

Gene Name RACGAP1

Gene Alias HsCYK-4, ID-GAP, MgcRacGAP

Gene Description Rac GTPase activating protein 1

Omim ID [604980](#)

Gene Ontology [Hyperlink](#)

Gene Summary Rho GTPases control a variety of cellular processes. There are 3 subtypes of Rho GTPases in the Ras superfamily of small G proteins: RHO (see MIM 165370), RAC (see RAC1; MIM 602048), and CDC42 (MIM 116952). GTPase-activating proteins (GAPs) bind activated forms of Rho GTPases and stimulate GTP hydrolysis. Through this catalytic function, Rho GAPs negatively regulate Rho-mediated signals. GAPs may also serve as effector molecules and play a role in signaling downstream of Rho and other Ras-like GTPases.[supplied by OMIM]

Other Designations GTPase activating protein

Publication Reference

- [Rho GTPase Transcriptome Analysis Reveals Oncogenic Roles for Rho GTPase-activating Proteins in Basal-like Breast Cancers.](#)

Lawson CD, Fan C, Mitin N, Baker NM, George SD, Graham DM, Perou CM, Burridge K, Der CJ, Rossman KL.

Cancer Research 2016 Jul; 76(13):3826.

Application: WB-Ce, WB-Tr, Human, HMLE, HCC1937, MCF-10A, MCF-7, MDA-MB-231, MDA-MB-468, SUM159, SUM149 cells

- [RNA-seq identification of RACGAP1 as a metastatic driver in uterine carcinosarcoma.](#)

Mi S, Lin M, Brouwer-Visser J, Heim J, Smotkin D, Hebert TM, Gunter MJ, Goldberg GL, Zheng D, Huang GS.

Clinical Cancer Research 2016 Sep; 22(18):4676.

Application: IHC, WB-Ti, WB-Tr, Human, Uterine carcinosarcoma, CS99 cells

- [Centralspindlin links the mitotic spindle to the plasma membrane during cytokinesis.](#)

Lekomtsev S, Su KC, Pye VE, Blight K, Sundaramoorthy S, Takaki T, Collinson LM, Cherepanov P, Divecha N, Petronczki M.

Nature 2012 Dec; 492(7428):276.

Application: IF, Human, Chicken, HeLa, DT40 cells

- [Up-regulation of Rac GTPase activating protein 1 is significantly associated with the early recurrence of human hepatocellular carcinoma.](#)

Wang SM, Ooi LL, Hui KM.

Clinical Cancer Research 2011 Sep; 17(18):6040.

Application: IHC-Fr, WB, Human, HepG2, Hep3B, MHCC97H cells, Hepatocellular carcinoma

- [Polo-Like Kinase 1 Directs Assembly of the HsCyk-4 RhoGAP/Ect2 RhoGEF Complex to Initiate Cleavage Furrow Formation.](#)

Wolfe BA, Takaki T, Petronczki M, Glotzer M.

PLoS Biology 2009 May; 7(5):e1000110.

Application: WB-Ce, WB-Tr, Human, HeLa cells

- [Plk1 self-organization and priming phosphorylation of HsCYK-4 at the spindle midzone regulate the onset of division in human cells.](#)

Burkard ME, Maciejowski J, Rodriguez-Bravo V, Repka M, Lowery DM, Clauser KR, Zhang C, Shokat KM, Carr SA, Yaffe MB, Jallepalli PV.

PLoS Biology 2009 May; 7(5):e1000111.

Application: WB-Ce, Human, HeLa cells

Disease

- [Cardiovascular Diseases](#)

- [Diabetes Mellitus](#)
- [Edema](#)