

Datasheet

RACGAP1 monoclonal antibody (M01), clone 1G6

Catalog Number: H00029127-M01

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against a partial recombinant RACGAP1.

Clone Name: 1G6

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:

MDTMMLNVRNLFEQLVRRVEILSEGNEVQFIQLAKDFE
DFRKKWQRTHDELGKYDLLMKAETERSALDVKLKHA
RNQVDVEIKRRQRAEADCEKLERQIQLIREMLMCD

Host: Mouse

Reactivity: Human

Applications: ELISA, S-ELISA, WB-Ce, WB-Re
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Isotype: IgG2b Kappa

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 29127

Gene Symbol: RACGAP1

Gene Alias: HsCYK-4, ID-GAP, MgcRacGAP

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]

References:

1. 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 Res.* 2016 May 23. [Epub ahead of print]
2. 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. *Clin Cancer Res.* 2016 Apr 27. [Epub ahead of print]
3. 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 13;492(7428):276-9. doi: 10.1038/nature11773.