10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

IQGAP1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant IQGAP1.
Catalog # AT2535a

Product Information

Application	WB, IHC, IF, E
Primary Accession	P46940
Other Accession	NM_003870
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	2C5
Calculated MW	189252

Additional Information

Gene ID	8826
Other Names	Ras GTPase-activating-like protein IQGAP1, p195, IQGAP1, KIAA0051
Target/Specificity	IQGAP1 (NP_003861, 611 a.a. ~ 710 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	IQGAP1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

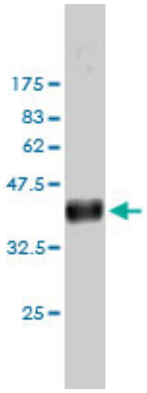
This gene encodes a member of the IQGAP family. The protein contains four IQ domains, one calponin homology domain, one Ras-GAP domain and one WW domain. It interacts with components of the cytoskeleton, with cell adhesion molecules, and with several signaling molecules to regulate cell morphology and motility. Expression of the protein is upregulated by gene amplification in two gastric cancer cell lines.

References

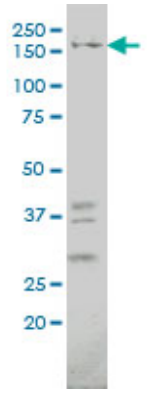
Honokiol inhibits HepG2 migration via down-regulation of IQGAP1 expression discovered by a quantitative pharmaceutical proteomic analysis. Liang S, et al. Proteomics, 2010 Apr. PMID 20127691.Endothelial IQGAP1 regulates efficient lymphocyte transendothelial migration. Nakhaei-Nejad M, et al. Eur J Immunol, 2010 Jan.

PMID 20017185.Overexpression of IQGAP1 in advanced colorectal cancer correlates with poor prognosis-critical role in tumor invasion. Hayashi H, et al. Int J Cancer, 2010 Jun 1. PMID 19856315.Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732.IQGAP1 regulates cell proliferation through a novel CDC42-mTOR pathway. Wang JB, et al. J Cell Sci, 2009 Jun 15. PMID 19454477.

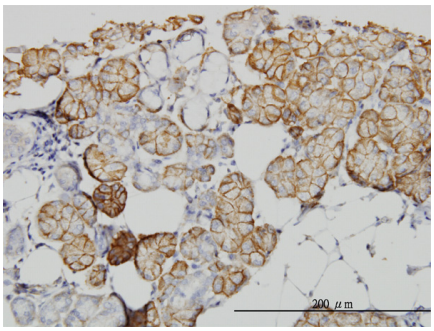
Images



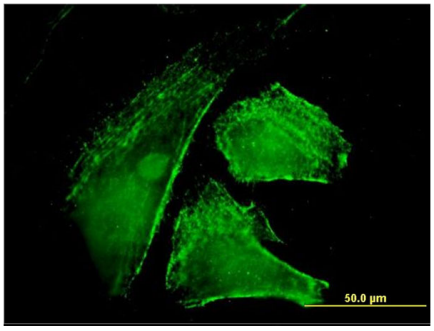
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



IQGAP1 monoclonal antibody (M01), clone 2C5 Western Blot analysis of IQGAP1 expression in C32 ((Cat # AT2535a)

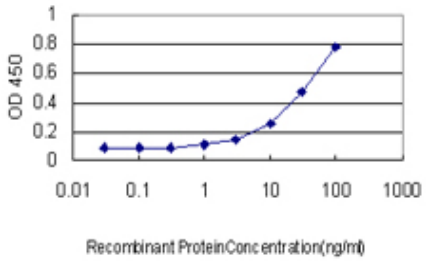


Immunoperoxidase of monoclonal antibody to IQGAP1 on formalin-fixed paraffin-embedded human salivary gland. [antibody concentration 1 ug/ml]



Immunofluorescence of monoclonal antibody to IQGAP1 on HeLa cell. [antibody concentration 10 ug/ml]

Detection limit for recombinant GST tagged IQGAP1 is approximately 3ng/ml as a capture antibody.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.