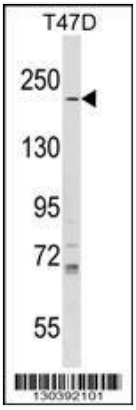
IQGAP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	IQGAP1, Polyclonal Antibody
Full Product Name	IQGAP1, NT (IQGAP1, KIAA0051, Ras GTPase-activating-like protein IQGAP1, p195) (APC)
Product Gene Name	anti-IQGAP1 antibody
Product Synonym Names	IQGAP1; KIAA0051; Ras GTPase-activating-like protein IQGAP1; p195
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	189,252 Da
Chromosome Location	Chromosome: 15; NC_000015.9 (90931473..91045475). Location: 15q26.1
OMIM	603379
3D Structure	ModBase 3D Structure for P46940
Immunogen	IQGAP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 255-285 amino acids from the N-terminal region of human IQGAP1.
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-IQGAP1 antibody	Antibodies; GTPase; Rab; Ras; Rho Proteins
Applications Tested/Suitable for anti-IQGAP1 antibody	Western Blot (WB), FLISA
Application Notes for anti-IQGAP1 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-IQGAP1 antibody	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.
Product References and Citations for anti-IQGAP1 antibody	Hayashi, H., et al. Int. J. Cancer 126(11):2563-2574(2010). Liang, S., et al. Proteomics 10(7):1474-1483(2010). Nakhaei-Nejad, M., et al. Eur. J. Immunol. 40(1):204-213(2010). Wang, J.B., et al. J. Cell. Sci. 122 (PT 12), 2024-2033 (2009): Usatyuk, P.V., et al. J. Biol. Chem. 284(22):15339-15352(2009).

Other Notes	Small volumes of anti-IQGAP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IQGAP1 purchase	MBS6310785 is an antibody targeting IQGAP1. Also known as IQGAP1, NT (IQGAP1, KIAA0051, Ras GTPase-activating-like protein IQGAP1, p195) (APC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-IQGAP1 antibody
IQGAP1 Antibody (N-term) western blot analysis in T47D cell line lysates (35ug/lane).This demonstrates the IQGAP1 antibody detected the IQGAP1 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IQGAP1. It may not necessarily be applicable to this product.

NCBI GI #	4506787
NCBI GeneID	8826
NCBI Accession #	NP_003861.1
UniProt Primary Accession #	P46940
UniProt Secondary Accession #	A7MBM3
UniProt Related Accession #	P46940
GenBank Nucleotide #	NM_003870.3
NCBI Official Full Name	ras GTPase-activating-like protein IQGAP1
NCBI Official Synonym Full Names	IQ motif containing GTPase activating protein 1
NCBI Official Symbol	IQGAP1
NCBI Official Synonym Symbols	SAR1; p195; HUMORFA01
UniProt Protein Name	Ras GTPase-activating-like protein IQGAP1
UniProt Synonym Protein Names	p195
Protein Family	Ras GTPase-activating-like protein
UniProt Gene Name	IQGAP1
UniProt Synonym Gene Names	KIAA0051
UniProt Entry Name	IQGA1_HUMAN
NCBI Protein Information	ras GTPase-activating-like protein IQGAP1; RasGAP-like with IQ motifs

UniProt Comments for IQGAP1	IQGAP1: Binds to activated CDC42 but does not stimulate its GTPase activity. It associates with calmodulin. Could serve as an assembly scaffold for the organization of a multimolecular complex that would interface incoming signals to the reorganization of the actin cytoskeleton at the plasma membrane. May promote neurite outgrowth. Interacts with CDC42; the interaction is demonstrated with IQGAP1 in GTP-bound and in nucleotide-free state. Interacts with RAC1. Does not interact with RHOA. Interacts with TSG101. Interacts with PAK6. Expressed in the placenta, lung, and kidney. A lower level expression is seen in the heart, liver, skeletal muscle and pancreas. Protein type: GAPs, Ras; GAPs; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 15q26.1 Cellular Component: microtubule; neuron projection; focal adhesion; leading edge; actin filament; actin cytoskeleton; microtubule cytoskeleton; nucleoplasm; extrinsic to internal side of plasma membrane; growth cone; axon; cytoplasm; plasma membrane; midbody; cell junction; lateral plasma membrane Molecular Function: calmodulin binding; protein serine/threonine kinase activator activity; protein binding; phosphatidylinositol-3,4,5-triphosphate binding; Rac GTPase binding; protein complex binding; calcium ion binding; protein phosphatase binding; protein kinase binding; GTPase activator activity; GTPase inhibitor activity Biological Process: epidermal growth factor receptor signaling pathway; fibroblast growth factor receptor signaling pathway; small GTPase mediated signal transduction; positive regulation of protein kinase activity; negative regulation of dephosphorylation; negative regulation of catalytic activity; energy reserve metabolic process; platelet-derived growth factor receptor signaling pathway; signal transduction; regulation of insulin secretion; regulation of cytokine production; positive regulation of GTPase activity
Research Articles on IQGAP1	**1.** RhoC stimulates the proliferation of gastric cancer cells through recruiting IQGAP1 as an effector.
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