

**IQGAP1 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16889a****Specification**

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**IQGAP1 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P46940](#)**IQGAP1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 8826**Other Names**

Ras GTPase-activating-like protein IQGAP1, p195, IQGAP1, KIAA0051

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**IQGAP1 Antibody (N-term) Blocking Peptide - Protein Information****Name** IQGAP1**Synonyms** KIAA0051**Function**

Plays a crucial role in regulating the dynamics and assembly of the actin cytoskeleton. 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 (PubMed:<a href="http://www.uniprot.org/citations/15695813" target="\_blank">15695813</a>). May play a possible role in cell cycle regulation by contributing to cell cycle progression after DNA replication arrest (PubMed:<a href="http://www.uniprot.org/citations/20883816" target="\_blank">20883816</a>).

**Cellular Location**

Cell membrane. Nucleus. Cytoplasm. Apical cell membrane. Basolateral cell membrane {ECO:0000250|UniProtKB:Q9JKF1}. Note=Subcellular distribution is regulated by the cell cycle, nuclear levels increase at G1/S phase (PubMed:20883816).

**Tissue Location**

Expressed in the placenta, lung, and kidney (PubMed:8051149). A lower level expression is seen in the heart, liver, skeletal muscle and pancreas (PubMed:8051149)

### **IQGAP1 Antibody (N-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

### **IQGAP1 Antibody (N-term) Blocking Peptide - Images**

### **IQGAP1 Antibody (N-term) Blocking Peptide - 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.

### **IQGAP1 Antibody (N-term) Blocking Peptide - References**

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)