

**IQGAP1 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP16889A****Specification**

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**IQGAP1 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P46940</a>
Other Accession	<a href="#">NP_003861.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	189252
Antigen Region	256-285

**IQGAP1 Antibody (N-term) - Additional Information****Gene ID** 8826**Other Names**

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

**Target/Specificity**

This IQGAP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 256-285 amino acids from the N-terminal region of human IQGAP1.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

IQGAP1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**IQGAP1 Antibody (N-term) - 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:[15695813](#)). May play a possible role in cell cycle regulation by contributing to cell cycle progression after DNA replication arrest (PubMed:[20883816](#)).

#### **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**

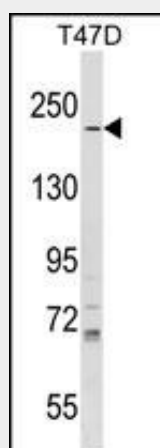
Expressed in the placenta, lung, and kidney (PubMed:8051149). A lower level expression is seen in the heart, liver, skeletal muscle and pancreas (PubMed:8051149)

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

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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



IQGAP1 Antibody (N-term) (Cat. #AP16889a) western blot analysis in T47D cell line lysates (35ug/lane). This demonstrates the IQGAP1 antibody detected the IQGAP1 protein (arrow).

### **IQGAP1 Antibody (N-term) - 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) - 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)