

**IQGAP1 Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF2999a****Specification**

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**IQGAP1 Antibody (internal region) - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P46940</a>
Other Accession	<a href="#">NP_003861.1</a> , <a href="#">8826</a> , <a href="#">29875 (mouse)</a> , <a href="#">361598 (rat)</a>
Reactivity	<b>Human, Mouse</b>
Predicted	<b>Rat</b>
Host	<b>Goat</b>
Clonality	<b>Polyclonal</b>
Concentration	<b>0.5 mg/ml</b>
Isotype	<b>IgG</b>
Calculated MW	<b>189252</b>

**IQGAP1 Antibody (internal region) - Additional Information****Gene ID** 8826**Other Names**

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

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

IQGAP1 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**IQGAP1 Antibody (internal region) - 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 (internal region) - 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 (internal region) - Images**



AF2999a (1 µg/ml) staining of Human Kidney lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### **IQGAP1 Antibody (internal region) - References**

IQGAP1 integrates Ca<sup>2+</sup>/calmodulin and B-Raf signaling. Ren JG, Li Z, Sacks DB, The Journal of biological chemistry 2008 Aug 283 (34): 22972-82. PMID: 18567582