

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

Specification

IQGAP1 Antibody (internal region) - Product Information

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

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: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 (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 Ca²⁺/calmodulin and B-Raf signaling. Ren JG, Li Z, Sacks DB, The Journal of biological chemistry 2008 Aug 283 (34): 22972-82. PMID: 18567582