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Anti-IQGAP1 Antibody

Catalog # AP51287

Product Information

Application	WB
Primary Accession	P46940
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	189252

Additional Information

Gene ID	8826
Other Names	KIAA0051; Ras GTPase-activating-like protein IQGAP1; p195
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human IQGAP1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	IQGAP1
Synonyms	KIAA0051
Function	Plays a crucial role in regulating the dynamics and assembly of the actin cytoskeleton. Recruited to the cell cortex by interaction with ILK which allows it to cooperate with its effector DIAPH1 to locally stabilize microtubules and allow stable insertion of caveolae into the plasma membrane (By similarity). Binds to activated CDC42 but does not stimulate its GTPase activity. Associates with calmodulin. 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. Cytoplasm, cell cortex {ECO:0000250|UniProtKB:Q9JKF1}. 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

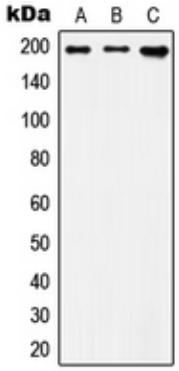
(PubMed:20883816).

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)

References

Weissbach L.,et al.J. Biol. Chem. 269:20517-20521(1994).
Nomura N.,et al.DNA Res. 1:223-229(1994).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Bienvenut W.V.,et al.Submitted (MAR-2009) to UniProtKB.
Grohmanova K.,et al.J. Biol. Chem. 279:48495-48504(2004).

Images



Western blot analysis of IQGAP1 expression in Jurkat (A), HUVEC (B), F9 (C) whole cell lysates. (Predicted band size: 189 kD; Observed band size: 189 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.