

KD-Validated Anti-IQGAP1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI2243

Product Information

Application	WB, FC
Primary Accession	P46940
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	25GB1900
Calculated MW	189252
Gene Name	IQGAP1
Aliases	IQGAP1; IQ Motif Containing GTPase Activating Protein 1; P195; HUMORFA01; KIAA0051; SAR1; Ras GTPase-Activating-Like Protein IQGAP1; RasGAP-Like With IQ Motifs
Immunogen	A synthesized peptide derived from human IQGAP1

Additional Information

Gene ID	8826
Other Names	Ras GTPase-activating-like protein IQGAP1, p195, IQGAP1, KIAA0051

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)

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