

Recombinant Anti-SYNGAP1 Rabbit mAb

Catalog # AP95120

Product Information

Application	WB, FC, IF/IC
Primary Accession	Q96PV0
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal
Calculated MW	148284

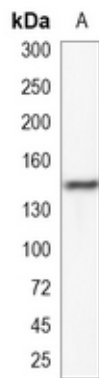
Additional Information

Gene ID	8831
Other Names	KIAA1938; Ras/Rap GTPase-activating protein SynGAP; Neuronal RasGAP; Synaptic Ras GTPase-activating protein 1; Synaptic Ras-GAP 1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human SYNGAP1 protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) FC~~1:10~50 IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

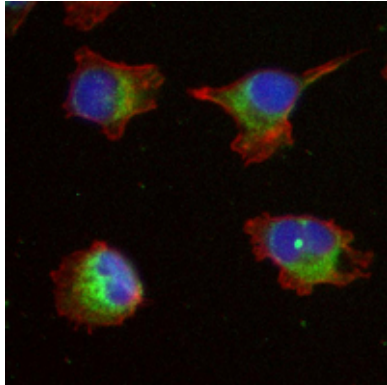
Protein Information

Name	SYNGAP1
Synonyms	KIAA1938
Function	Major constituent of the PSD essential for postsynaptic signaling. Inhibitory regulator of the Ras-cAMP pathway. Member of the NMDAR signaling complex in excitatory synapses, it may play a role in NMDAR-dependent control of AMPAR potentiation, AMPAR membrane trafficking and synaptic plasticity. Regulates AMPAR-mediated miniature excitatory postsynaptic currents. Exhibits dual GTPase-activating specificity for Ras and Rap. May be involved in certain forms of brain injury, leading to long-term learning and memory deficits (By similarity).

Images



Western blot analysis of SYNGAP1 expression in human fetal brain (A) whole cell lysates. (Predicted band size: 148 kD; Observed band size: 147 kD)



Immunofluorescent analysis of SYNGAP1 staining in U251 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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