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EB11147 - Goat Anti-SYNGAP1 (aa1169-1183) Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: DKFZp761G1421, KIAA1938, MRD5, neuronal RasGAP, OTTHUMP00000209046, ras GTPase-activating protein SynGAP, RASA1, RASA5, synaptic Ras GTPase activating protein 1, synaptic Ras GTPase activating protein 1 homolog, synaptic Ras GTPase activating protein, 135kDa, synaptic Ras GTPase-activating protein 1, SYNGAP, SYNGAP1
Official Symbol: SYNGAP1
Accession Number(s): NP_006763.2
Human GeneID(s): 8831
Non-Human GeneID(s): 240057 (mouse), 192117 (rat)

Immunogen

Peptide with sequence C-ESAHIEREEYKLKEY, from the internal region (near C Terminus) of the protein sequence according to NP_006763.2.

Please note the peptide is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Aliquot and store at -20°C. Minimize freezing and thawing.

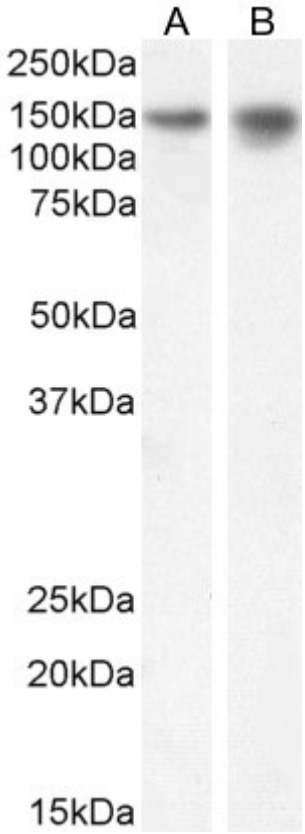
Applications Tested

Peptide ELISA: antibody detection limit dilution 1:32000.
Western blot: Approx 150kDa band observed in Human Cerebral Cortex and in Mouse Brain lysates (calculated MW of 148kDa according to Human NP_006763.2 and Mouse XP_990642.3). Recommended concentration: 0.5-2µg/ml. Primary incubation 1 hour at room temperature.
IHC: Paraffin embedded Human Brain (Cortex). Recommended concentration: 4µg/ml.

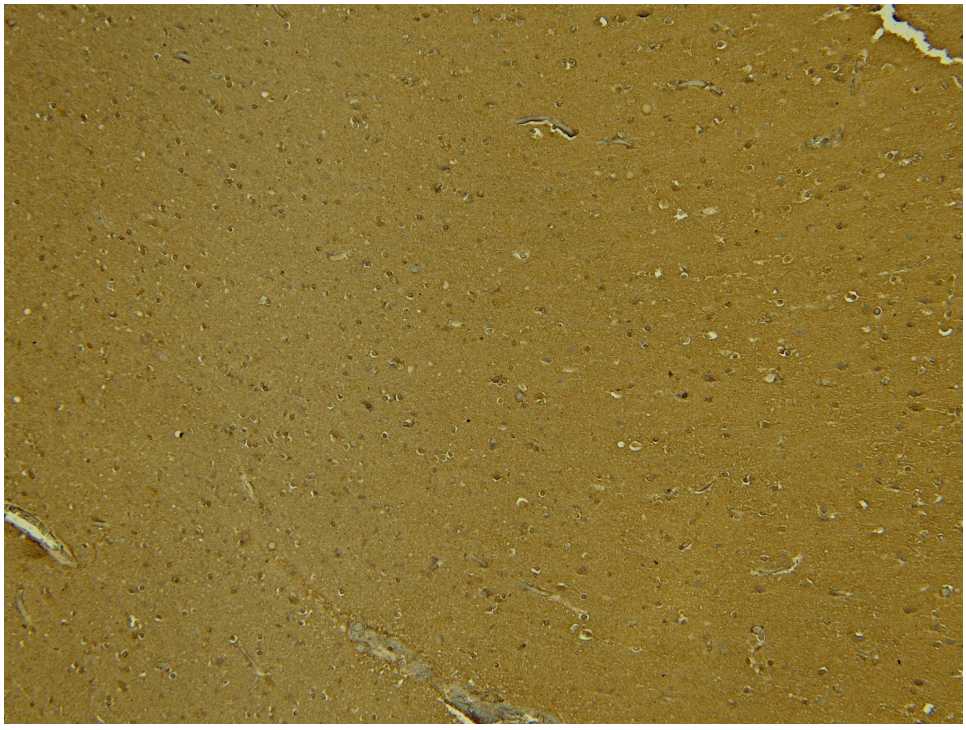
Immunofluorescence: Strong expression of the protein seen in Neuro-2a, A431 and U251 cells. Recommended concentration: 10µg/ml.

Species Reactivity

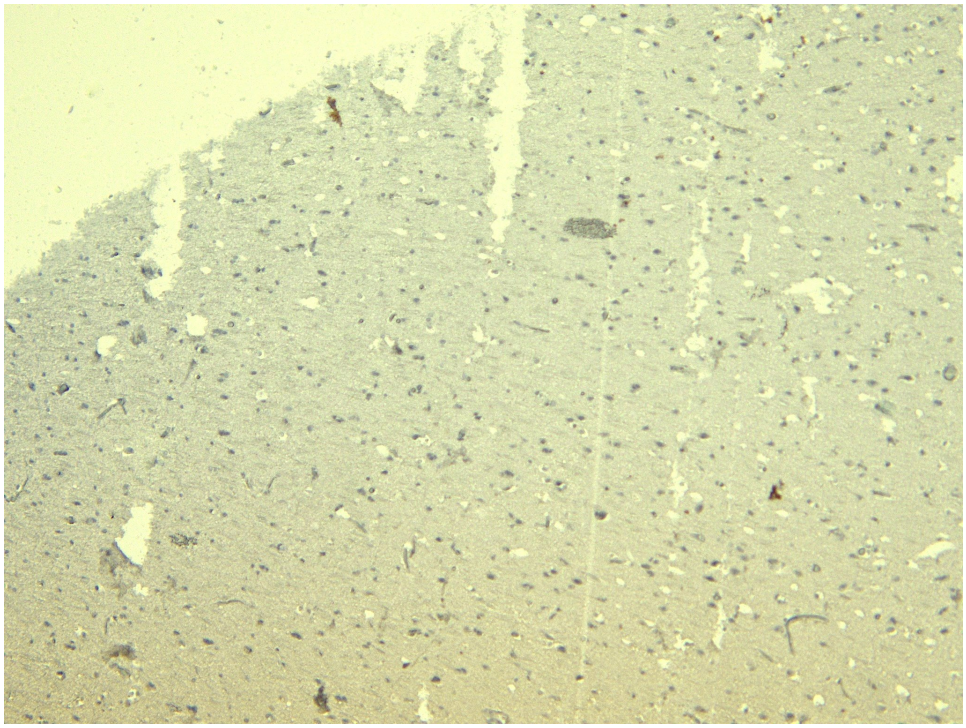
Tested: Human, Mouse
Expected from sequence similarity: Human, Mouse, Rat, Dog, Pig, Cow



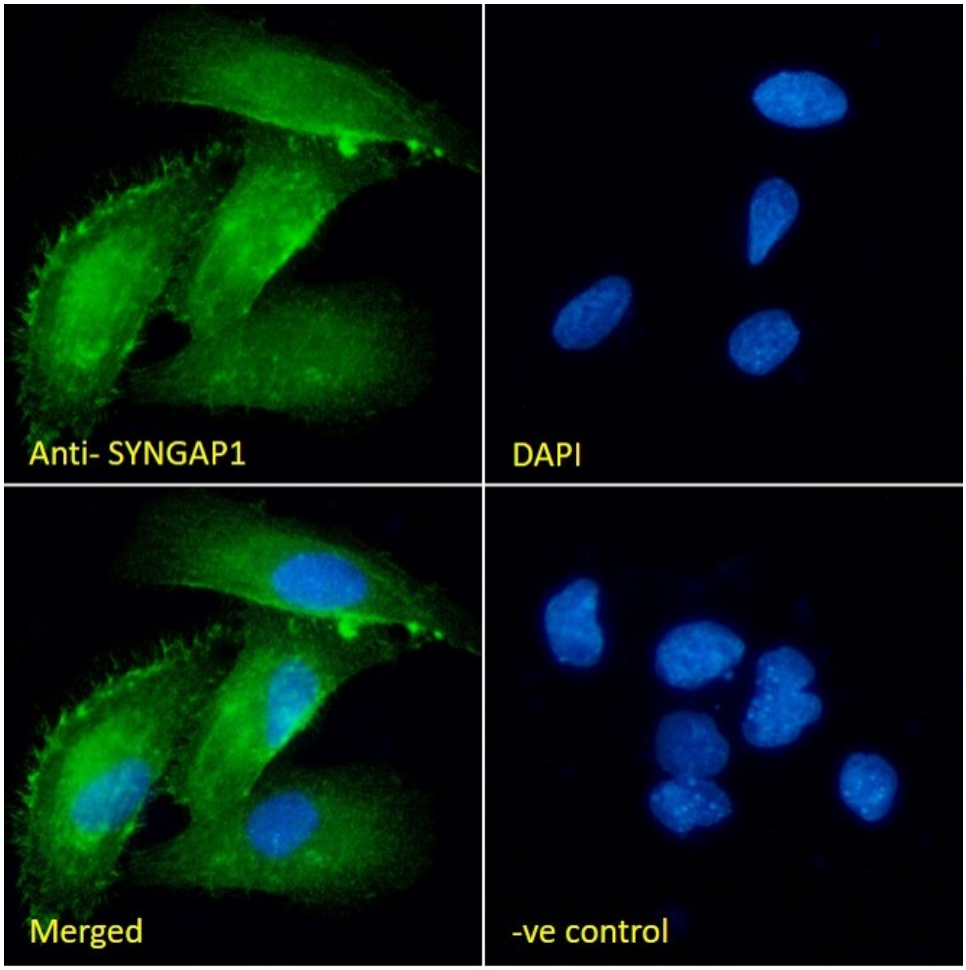
EB11147 (2µg/ml) staining of Human Cerebral Cortex (A) and (2µg/ml) Mouse Brain (B) lysate (35µg protein in RIPA buffer. Detected by chemiluminescence.



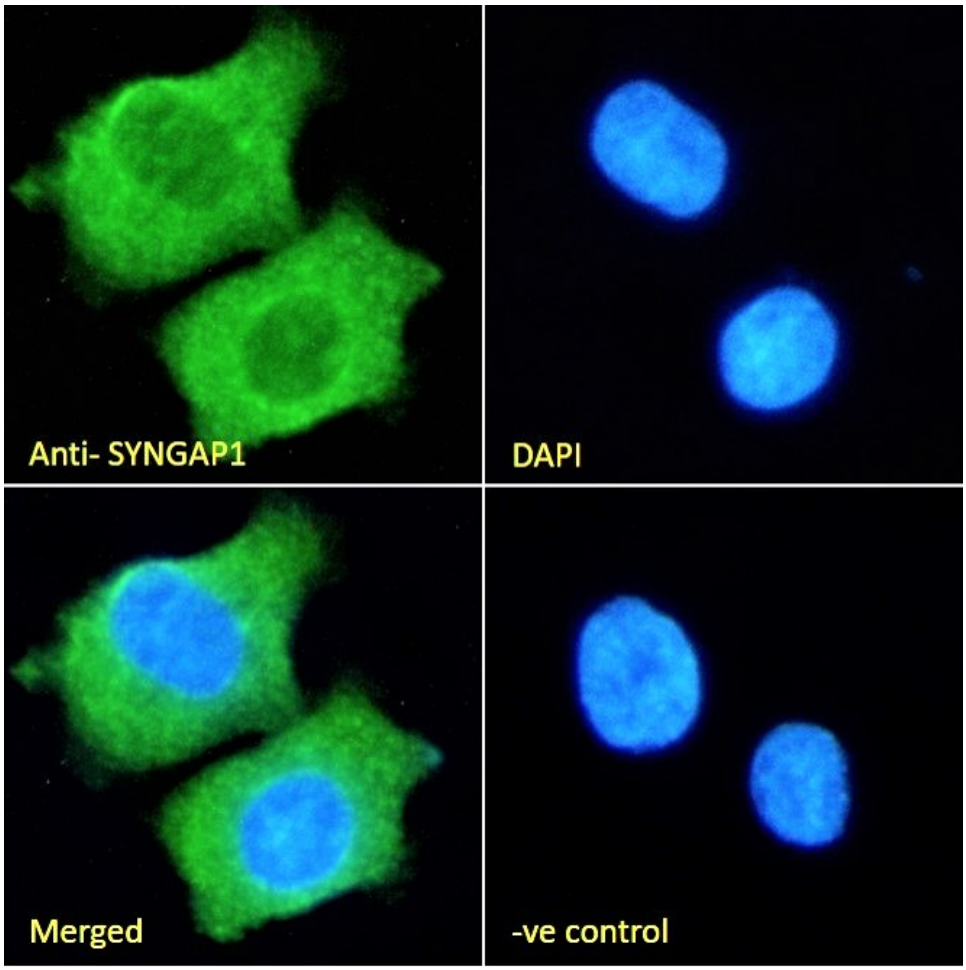
EB11147 (4µg/ml) staining of paraffin embedded Human Cortex. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



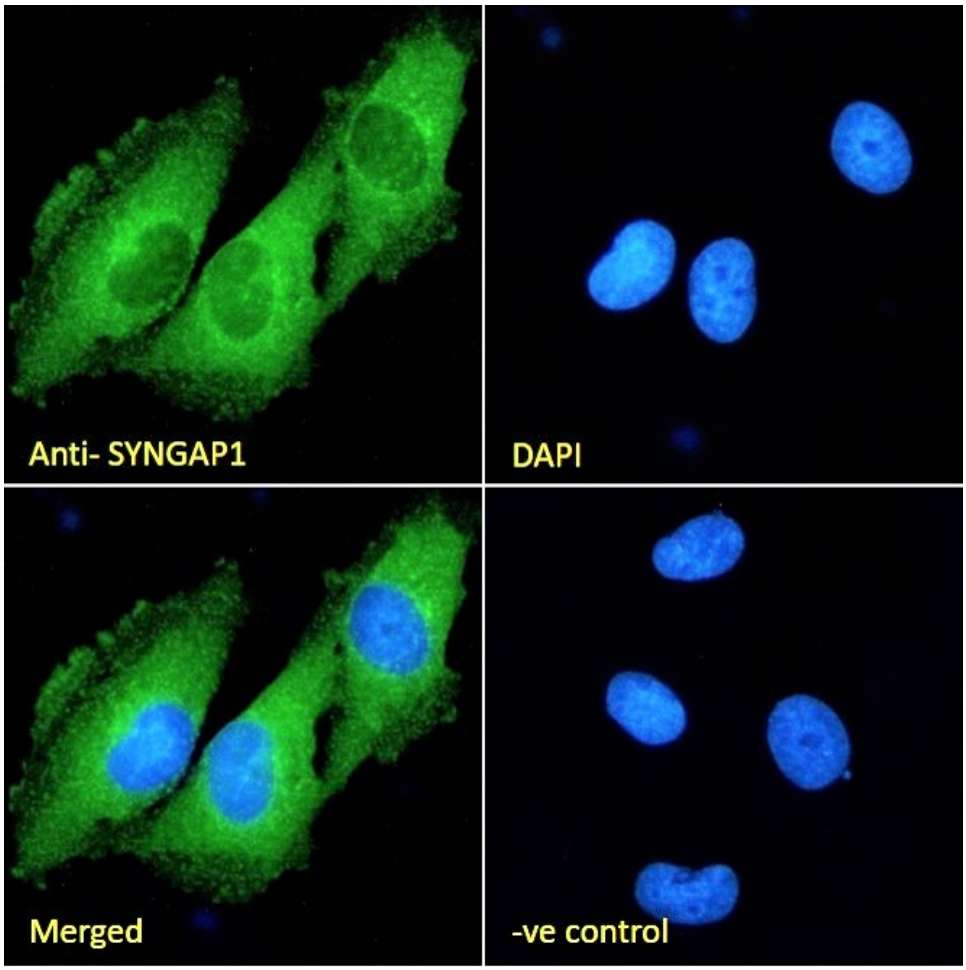
EB11147 Negative Control showing staining of paraffin embedded Human Cortex, with no primary antibody.



EB11147 Immunofluorescence analysis of paraformaldehyde fixed Neuro-2a cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB11147 Immunofluorescence analysis of paraformaldehyde fixed A431 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB11147 Immunofluorescence analysis of paraformaldehyde fixed U251 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).