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**Research Use Only. Not for
diagnostic or therapeutic use.**

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.

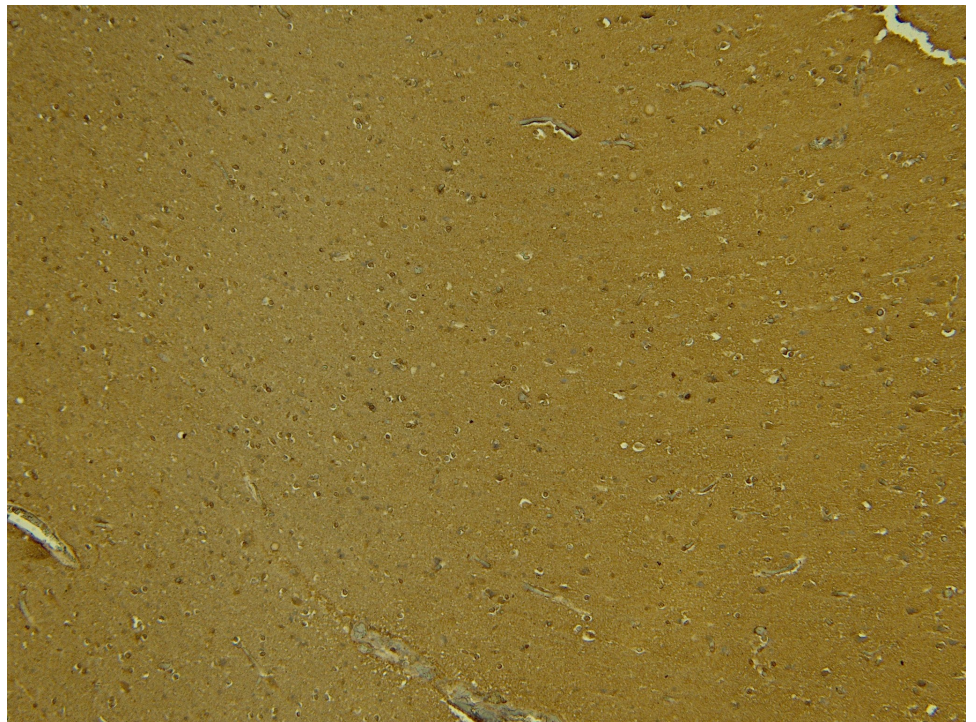
Species Reactivity

Tested: Human, Mouse

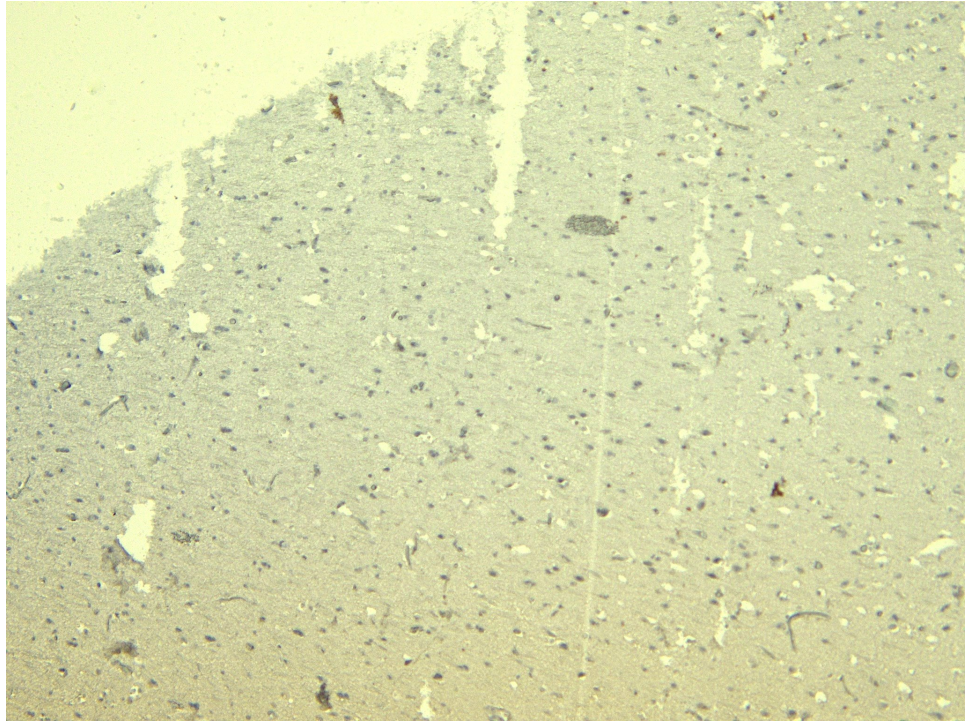
Expected from sequence similarity: Human, Mouse, Rat, Dog, Pig, Cow



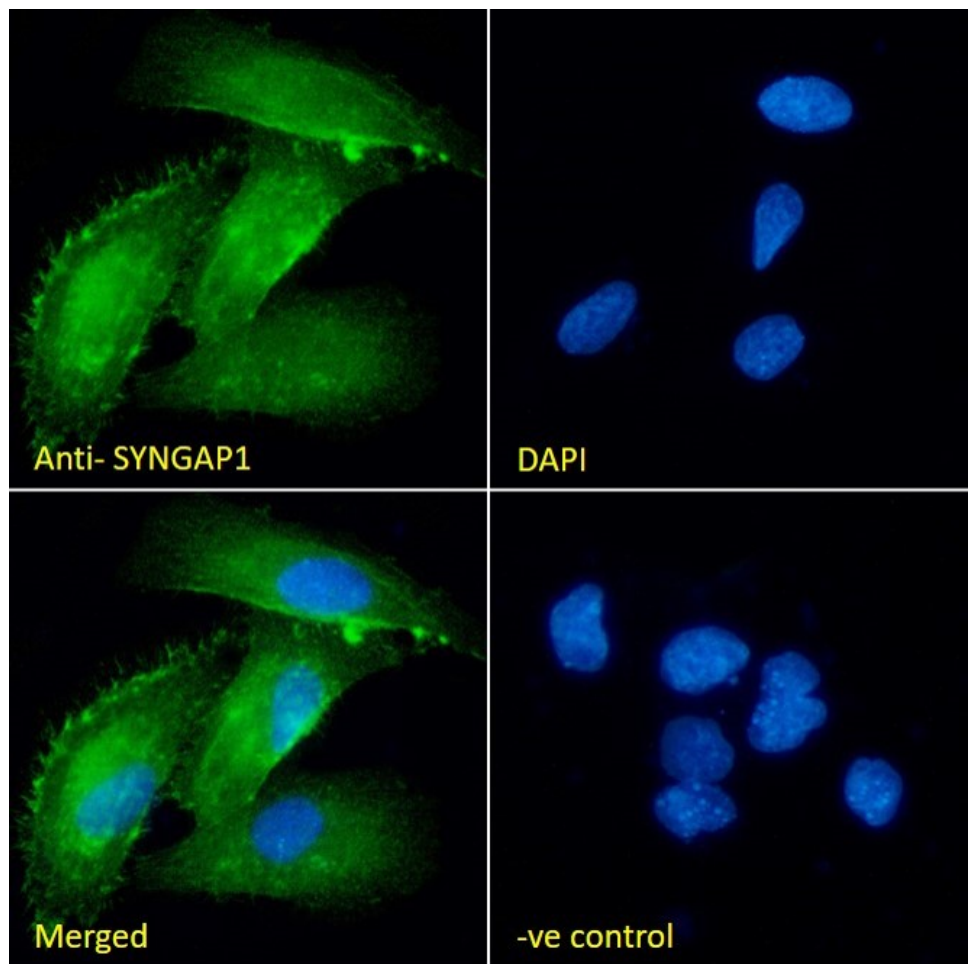
EB11147 (2 μ g/ml) staining of Human Cerebral Cortex (A) and (2 μ g/ml) Mouse Brain (B) lysate (35 μ g protein in RIPA buffer. Detected by chemiluminescence.



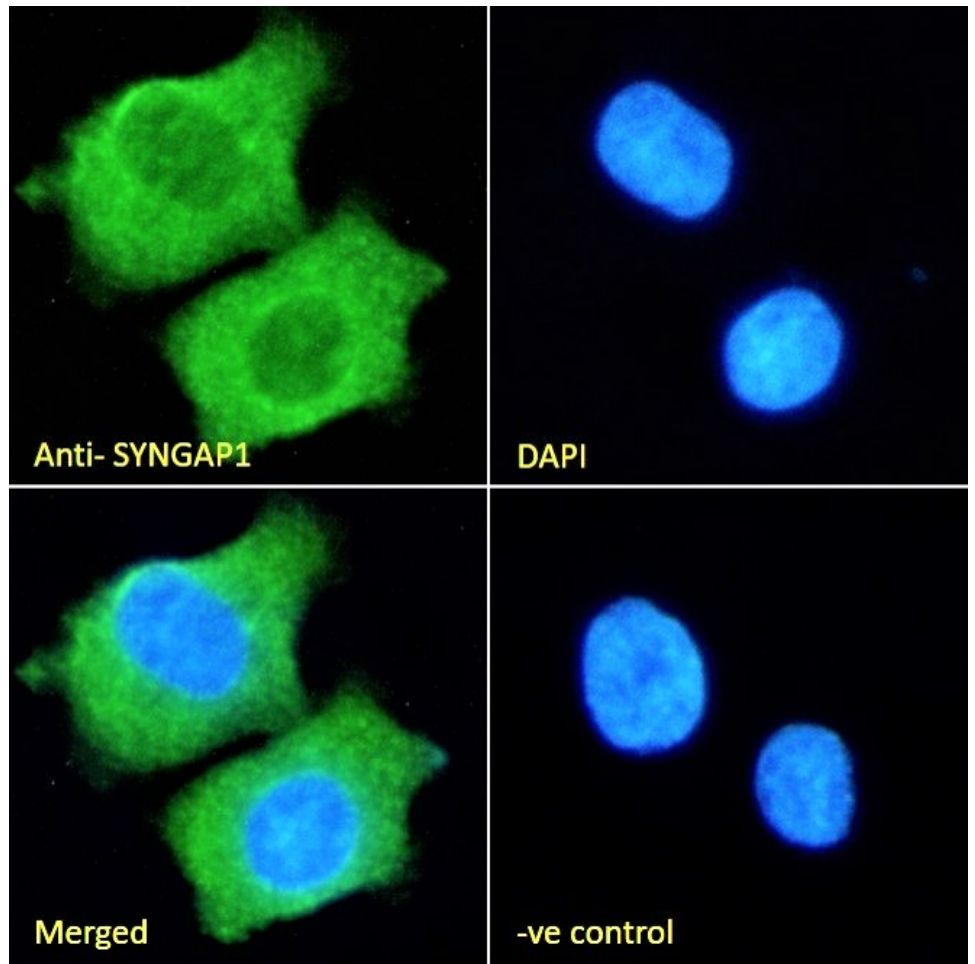
EB11147 (4 μ g/ml) staining of paraffin embedded Human Cortex. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



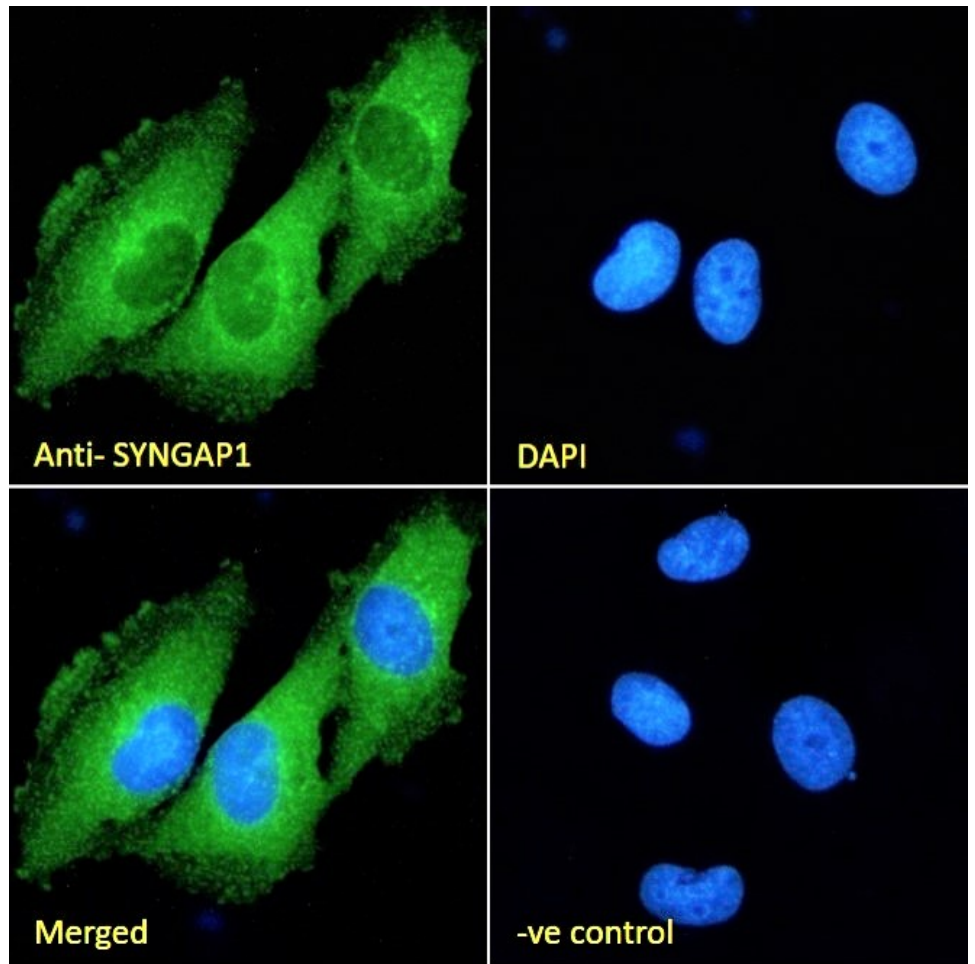
EB11147 Negative Control showing staining of paraffin embedded Human Cortex, with no primary antibody.



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).