

## UK Office

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

## EB07385 - Goat Anti-SYNGAP1 Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** SYNGAP1, synaptic Ras GTPase activating protein 1 homolog (rat), RP11-175A4.1, DKFZp761G1421, KIAA1938, RASA1, RASA5, SYNGAP, OTTHUMP00000064825, synaptic Ras GTPase activating protein 1, synaptic Ras GTPase activating protein 1 (homolog of rat), synaptic Ras GTPase activating protein, 135kDa

**Official Symbol:** SYNGAP1

**Accession Number(s):** NP\_006763.1

**Human GeneID(s):** [8831](#)

**Non-Human GeneID(s):** 240057 (mouse), 192117 (rat)

### Immunogen

Peptide with sequence C-YRSDSKKRKKDKAGY, from the internal region of the protein sequence according to NP\_006763.1.

### 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:** Preliminary experiments gave an approx 38-40kDa band in Human, Mouse and Rat Brain lysates after 0.3µg/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the band we observe given the calculated size of 147kDa according to NP\_006763.1. The 38-40kDa band was successfully blocked by incubation with the immunizing peptide. We would appreciate any feedback from people in the field - have any results been reported with other antibodies/lysates? Have any further splice variants/modified forms been reported?

### Species Reactivity

**Tested:**

**Expected from sequence similarity:** Human, Mouse, Rat, Dog

### Background Reference

Rumbaugh G, Adams JP, Kim JH, Huganir RL.

SynGAP regulates synaptic strength and mitogen-activated protein kinases in cultured neurons.

Proc Natl Acad Sci U S A. 2006 Mar 21;103(12):4344-51. Epub 2006 Mar 14.

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