




## Product datasheet

# Anti-SynGAP antibody ab126871

1 Image

### Overview

<b>Product name</b>	Anti-SynGAP antibody
<b>Description</b>	Goat polyclonal to SynGAP
<b>Host species</b>	Goat
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse <b>Predicted to work with:</b> Rat, Human 
<b>Immunogen</b>	Synthetic peptide: DEDEIHPLLIRDR-C (with a Cysteine residue linker), corresponding to N terminal amino acids 60-72 of Human SynGAP (NP_006763.2; Q96PV0). <a href="#"> Run BLAST with</a> <a href="#"> Run BLAST with</a>
<b>Positive control</b>	Mouse Brain lysate
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.5% BSA, 99% Tris buffered saline
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
<b>Clonality</b>	Polyclonal

Isotype

IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab126871 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 - 3 µg/ml. Predicted molecular weight: 148 kDa. 1 hour primary incubation is recommended for this product.

## Target

### 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. May be involved in certain forms of brain injury, leading to long-term learning and memory deficits.

### Involvement in disease

Defects in SYNGAP1 are the cause of mental retardation autosomal dominant type 5 (MRD5) [MIM:612621]. Mental retardation is characterized by significantly sub-average general intellectual functioning associated with impairments in adaptive behavior and manifested during the developmental period. MRD5 patients show global developmental delay with delayed motor development, hypotonia, moderate-to-severe mental retardation, and severe language impairment. Autism can be present in some patients.

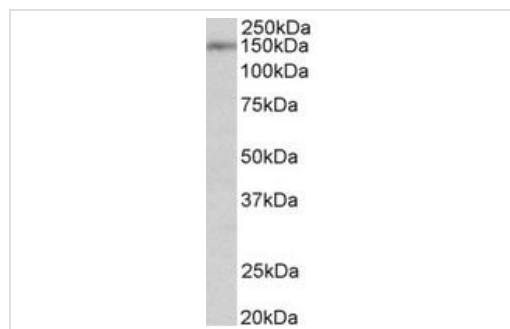
### Sequence similarities

Contains 1 C2 domain.  
Contains 1 PH domain.  
Contains 1 Ras-GAP domain.

### Post-translational modifications

Phosphorylated by CaM-kinase II. Dephosphorylated upon NMDA receptor activation or SYNGAP1/MPDZ complex disruption.

## Images



Western blot - Anti-SynGAP antibody (ab126871)

Anti-SynGAP antibody (ab126871) at 2 µg/ml + Mouse Brain lysate at 35 µg

Developed using the ECL technique.

**Predicted band size:** 148 kDa

**Exposure time:** 1 hour

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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