

## SynGAP

Cat.No. 157 002; Polyclonal rabbit antibody, 200 µl antiserum (lyophilized)

### Data Sheet

Reconstitution/ Storage	200 µl antiserum, lyophilized. For reconstitution add 200 µl H <sub>2</sub> O, then aliquot and store at -20°C until use.
Applications	<b>WB:</b> 1 : 500 up to 1 : 2000 (AP staining) <b>IP:</b> not tested yet <b>ICC:</b> not tested yet <b>IHC:</b> not tested yet <b>IHC-P/FFPE:</b> not tested yet
Immunogen	Synthetic peptide corresponding to AA 1274 to 1293 from rat SynGAP (UniProt Id: Q9QUH6)
Reactivity	Reacts with: rat (Q9QUH6). Other species not tested yet.
Specificity	Recognizes both isoforms SynGAP a and b.
matching control	157-0P

**TO BE USED IN VITRO / FOR RESEARCH ONLY**  
**NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS**

**SynGAP** is an approximately 135 kDa protein which is condensed at the post-synaptic density. A potential interaction partner for this protein is the abundant PDZ domain protein PSD 95. Three isoforms (a, b and c) of synGAP have been described. The protein is a substrate for calmodulin dependent kinase 2 (CAMK2). Phosphorylation of synGAP reduces its activity, leading to an increased activation of Ras.

### Selected General References

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SynGAP-MUAPP1-CaMKII synaptic complexes regulate p38 MAP kinase activity and NMDA receptor-dependent synaptic AMPA receptor potentiation.  
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SynGAP regulates ERK/MAPK signaling, synaptic plasticity, and learning in the complex with postsynaptic density 95 and NMDA receptor.  
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