

## SynGAP

Cat.No. 157-0P; control peptide, 100 µg peptide (lyophilized)

### Data Sheet

Reconstitution/ Storage	100 µg peptide, lyophilized. For reconstitution add 100 µl H <sub>2</sub> O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use. Control peptides should also be stored at -20°C when still lyophilized!
Immunogen	Synthetic peptide corresponding to AA 1274 to 1293 from rat SynGAP (UniProt Id: Q9QUH6)
Recommended dilution	Optimal concentrations should be determined by the end-user.
matching antibodies	157 002, 157 003
Remarks	This control peptide consists of the peptide (KRLLEDAQRGSFPPWVQTRV) that has been used for immunization. It has been tested in preadsorption experiments and blocks efficiently and specifically the corresponding signal in Western blots. The amount of peptide needed for efficient blocking depends on the titer and on the affinity of the antibody to the antigen.

**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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