

SAP 97

Cat.No. 124-3P; control peptide, 100 µg peptide (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg peptide, lyophilized. For reconstitution add 100 µl H ₂ 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 115 to 133 from rat SAP97 (UniProt Id: Q62696)
Recommended dilution	Optimal concentrations should be determined by the end-user.
matching antibodies	124 302
Remarks	This control peptide consists of the synthetic peptide (VLPSERISPQVPNEVLGPE) 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**

SAP 97 (synapse associated protein of 97 kDa, also called **DLG 1**) like PSD 95 and SAP 102, is a scaffolding protein of the postsynaptic density. It consists of three type-one PDZ domains and binds selectively to the C-terminus of the GluR1 subunit of AMPA receptors.

SAP 97 is probably involved in the clustering of AMPA receptors at the post-synaptic membrane. It is also expressed in heart, where it has been shown to be involved in the targeting of voltage gated potassium channels to subpopulations of lipid rafts.

Selected General References

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- Caveolin-3 and SAP97 form a scaffolding protein complex that regulates the voltage-gated potassium channel Kv1.5. Folco EJ, Liu GX, Koren G. *American journal of physiology. Heart and circulatory physiology* (2004) 287(2): H681-90.
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