

## SAP 102

**Cat.No. 124 214; Polyclonal Guinea pig antibody, 100 µl antiserum (lyophilized)**

### Data Sheet

Reconstitution/ Storage	100 µl antiserum, lyophilized. For reconstitution add 100 µl H <sub>2</sub> O, then aliquot and store at -20°C until use.
Applications	<b>WB:</b> 1 : 1000 (AP staining) <b>IP:</b> yes <b>ICC:</b> 1 : 100 up to 1 : 500 <b>IHC:</b> not recommended <b>IHC-P/FFPE:</b> not tested yet
Immunogen	Recombinant protein corresponding to AA 1 to 146 from mouse SAP102 (UniProt Id: P70175)
Reactivity	Reacts with: rat (Q62936), mouse (P70175). Other species not tested yet.
Specificity	Specific for SAP 102. (K.O. verified)

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

**SAP 102** (synapse associated protein of **102** kDa, also called **DLG 3**) belongs to the PSD 95 family containing a modular structure with three PDZ-, one SH3- and a guanylate kinase-like domain. It is a component of postsynaptic densities in central synapses. It is involved in NMDA receptor clustering and immobilization. In vitro, all three PDZ domains in SAP 102 bind the cytoplasmic tail of NR2B.

### Selected General References

SAP family proteins.

Fujita A, Kurachi Y

Biochemical and biophysical research communications (2000) 269(1): 1-6.

Molecular organization of excitatory chemical synapses in the mammalian brain.

Gundelfinger ED, tom Dieck S

Die Naturwissenschaften (2000) 87(12): 513-23.

Interaction of the N-methyl-D-aspartate receptor complex with a novel synapse-associated protein, SAP102.

Lau LF, Mammen A, Ehlers MD, Kindler S, Chung WJ, Garner CC, Huganir RL

The Journal of biological chemistry (1996) 271(35): 21622-8.

SAP102, a novel postsynaptic protein that interacts with NMDA receptor complexes in vivo.

Müller BM, Kistner U, Kindler S, Chung WJ, Kuhlendahl S, Fenster SD, Lau LF, Veh RW, Huganir RL, Gundelfinger ED, Garner CC, et al.

Neuron (1996) 17(2): 255-65.