

## SALM 4

**Cat.No. 294 403; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)**

### Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H <sub>2</sub> O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	<b>WB:</b> 1 : 100 up to 1 : 1000 (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 614 to 626 from rat SALM4 (UniProt Id: B0BNK7)
Reactivity	Reacts with: rat (B0BNK7), mouse (Q8BLY3). Other species not tested yet.
Specificity	Specific for SALM 4. (K.O. verified)
matching control	294-4P

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

Synaptic adhesion-like molecules (**SALMs**) are a family of cell adhesion molecules also known as LRFN (leucine-rich repeat and fibronectin III domain-containing). They are involved in neurite outgrowth and synapse formation.

SALM 1, 2, and 3 contain a cytoplasmic C-terminal PDZ-binding motif which is not present in SALM 4 and 5.

### Selected References SYSY Antibodies

SALM4 suppresses excitatory synapse development by cis-inhibiting trans-synaptic SALM3-LAR adhesion. Lie E, Ko JS, Choi SY, Roh JD, Cho YS, Noh R, Kim D, Li Y, Kang H, Choi TY, Nam J, et al. Nature communications (2016) 7: 12328. **WB; KO verified; tested species: mouse**

### Selected General References

Selected SALM (synaptic adhesion-like molecule) family proteins regulate synapse formation.

Mah W, Ko J, Nam J, Han K, Chung WS, Kim E

The Journal of neuroscience : the official journal of the Society for Neuroscience (2010) 30(16): 5559-68.

The SALM family of adhesion-like molecules forms heteromeric and homomeric complexes.

Seabold GK, Wang PY, Chang K, Wang CY, Wang YX, Petralia RS, Wenthold RJ

The Journal of biological chemistry (2008) 283(13): 8395-405.

Comparative analysis of structure, expression and PSD95-binding capacity of Lrfrn, a novel family of neuronal transmembrane proteins.

Morimura N, Inoue T, Katayama K, Aruga J

Gene (2006) 380(2): 72-83.