

## Synaptoporin

Cat.No. 102 011; Monoclonal mouse antibody, 100 µg purified IgG (lyophilized)

### Data Sheet

Reconstitution/ Storage	100 µg purified IgG, lyophilized. Albumin and azide were added for stabilization. For <b>reconstitution</b> 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.
Applications	<b>WB:</b> 1 : 1000 AP staining <b>IP:</b> not tested yet <b>ICC:</b> 1 : 500 <b>IHC:</b> 1 : 1000 up to 1 : 2000 (see remarks) <b>IHC-P/FFPE:</b> 1 : 1000
Clone	44E3D12
Subtype	IgG2b (κ light chain)
Immunogen	Synthetic peptide corresponding to AA 250 to 263 from rat Synaptoporin (UniProt Id: P22831)
Epitop	Epitop: AA 250 to 263 from rat Synaptoporin (UniProt Id: P22831)
Reactivity	Reacts with: mouse (Q8BGN8), rat (P22831). Other species not tested yet.
Specificity	Specific for synaptoporin.
Matching control	102-1P
Remarks	<b>IHC:</b> In addition to the expected strong mossy fibre staining, this antibody shows some weak unspecific staining of cell bodies in the cortex, striatum and cerebellum.

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

**Synaptoporin**, also known as **synaptophysin 2** and **p38-2**, is highly homologous to synaptophysin 1 but encoded by a different gene. Like synaptophysin 1, synaptoporin contains four transmembrane regions and a short cytoplasmic tail. Unlike synaptophysin 1, it is not glycosylated.

The distributions of synaptophysin 1 and synaptoporin are different. Synaptophysin 1 is more uniformly expressed whereas synaptoporin is particularly enriched in mossy fiber synapses in the hippocampus. It is thus an excellent marker for subsets of synapses.