Homer 1

Cat.No. 160 011; 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 reconstitution add 100 µl H2O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.

**Applications**
- WB: 1 : 1000 (AP staining)
- IP: yes
- ICC: 1 : 100 up to 1 : 500
- IHC: not recommended
- IHC-P/FFPE: not tested yet
- EM: yes
- ELISA: yes (see remarks)

**Clone**
2G8

**Subtype**
IgG1 (κ light chain)

**Immunogen**
Recombinant protein corresponding to AA 1 to 196 from human Homer1 (UniProt Id: Q86YM7)

**Epitop**
Epitop: AA 1 to 168 from human Homer1 (UniProt Id: Q86YM7)

**Reactivity**
Reacts with: human (Q86YM7), rat (Q9Z214), mouse (Q9Z2Y3).

**Specificity**
Specific for Homer 1. According to Soloviev et al. (2000), aa 1 - 180 are present in isoforms a, b, c and d.

**matching control**
160-0P

**Remarks**
ELISA: Suitable as capture antibody for sandwich-ELISA with cat. no. 160 003 as detector antibody (protocol for sandwich-ELISA).

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

Homer is a scaffolding protein of the post synaptic density (PSD) and enriched at excitatory synapses. The protein binds metabotropic glutamate receptors, TRPC1, proteins of the Shank family and others. By aggregating these proteins into clusters, homer was suggested to organize distinct signalling domains. Three isoforms, Homer 1, 2 and 3 have been described. Each of these isoforms is subject to alternative splicing yielding the splice variants a, b, c, d.

**Selected References SYSY Antibodies**
Homer is concentrated at the postsynaptic density and does not redistribute after acute synaptic stimulation. Tao-Cheng JH, Thein S, Yang Y, Reese TS, Gallant PE. Neuroscience (2014) 266: 80-90. WB, EM


