

## Homer 2

Cat.No. 160 204; 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> yes limited (see remarks) <b>IP:</b> not tested yet <b>ICC:</b> 1 : 500 <b>IHC:</b> 1 : 500 <b>IHC-P/FFPE:</b> not tested yet
Immunogen	Recombinant protein corresponding to AA 1 to 176 from rat Homer2 (UniProt Id: O88801)
Reactivity	Reacts with: mouse (Q9QWW1), rat (O88801). Other species not tested yet.
Specificity	Specific for Homer 2
Remarks	<b>WB:</b> The rabbit antibody cat. no. 160 203 is more sensitive and recommended.

### Selected General References

Homer2 and Homer3 interact with amyloid precursor protein and inhibit Abeta production.  
 Parisiadou L, Bethani I, Michaki V, Krousti K, Rapti G, Efthimiopoulos S  
*Neurobiology of disease* (2008) 30(3): 353-64.

Differential expression of Homer family proteins in the developing mouse brain.  
 Shiraishi Y, Mizutani A, Yuasa S, Mikoshiba K, Furuchi T  
*The Journal of comparative neurology* (2004) 473(4): 582-99.

Molecular characterisation of two structurally distinct groups of human homers, generated by extensive alternative splicing.  
 Soloviev MM, Ciruela F, Chan WY, McIlhinney RA  
*Journal of molecular biology* (2000) 295(5): 1185-200.

### 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.