**Anti Homer 2**

**BACKGROUND**
Homer is primarily localized at a postsynapse in neural cell, and acts as an adaptor protein for several synaptic molecules. Each Homer type is expressed in specific cells, respectively. Homer is identified to link multiple targets, such as type 1 metabotropic glutamate receptors, IP3 receptors, Shank, etc., and known to be concerned with morphology and function of postsynapse. In addition, Homer is identified to be expressed in some non-neuronal cells.

Homerは、主に神経細胞のポストシンパプスに局在し、各種シンパプス分子の足場タンパク質として機能する。各Homerタイプは特異的な細胞に発現する。グルーピーI代謝型グルタミン酸受容体、IP3受容体、shankなどと結合し、ポストシンパプスの機能や形態に関与することが知られている。一部の非神経系細胞での発現も知られている。

<table>
<thead>
<tr>
<th><strong>Product type</strong></th>
<th>Primary antibodies</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Host</strong></td>
<td>Rabbit</td>
</tr>
<tr>
<td><strong>Source</strong></td>
<td>Serum</td>
</tr>
<tr>
<td><strong>Form</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Immunogen affinity purified</strong></td>
<td></td>
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<tr>
<td><strong>Volume</strong></td>
<td>50 µl</td>
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<tr>
<td><strong>Concentration</strong></td>
<td>0.35 mg/ml</td>
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<tr>
<td><strong>Specificity</strong></td>
<td>Homer 2, not react Homer 1 and 3</td>
</tr>
<tr>
<td><strong>Antigen</strong></td>
<td>Mouse Homer 2</td>
</tr>
<tr>
<td><strong>Isotype</strong></td>
<td>IgG</td>
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</tbody>
</table>

**Application notes**
WB, IHC Other applications: not tested yet.

**Recommended use**

**Recommended dilutions**
Western Blot: 1/3,000. Predicted molecular weight: 45 kDa
Immunohistochemistry: 1/500 - 1/1,000

Optimal dilutions/concentrations should be determined by the end user.

**Staining Pattern**

**Cross reactivity**
Rat, Human cultured cell

**Storage**
Store below -20°C (below -70°C for prolonged storage). Aliquot to avoid cycles of freeze/thaw.

**References**
post-synaptic adaptor protein Cupidin (Homer 2/Vesl-2) in cultured cerebellar granule cells. J. Neurochem. 87:364-376.


Fig. 1 Western Blot analysis
After 5µg of Adult Mouse Cerebellum (total protein) was electrophoresed and transferred to membranes, each Homer family proteins was detected specifically by using corresponded anti-Homer antibodies.

Fig. 2 Immunohistochemical analysis
Immunohistochemical
distribution of the Homer family proteins Homer 1b/c (A), Cupidin/Homer 2a/b (B), and Homer 3a/b (C) in parasagittal sections of P14 mouse brains. Scale bar = 1mm.

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