**Collybistin**

Cat.No. 261 003; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

**Data Sheet**

<table>
<thead>
<tr>
<th>Reconstitution/Storage</th>
<th>50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Albumin was added for stabilization. For reconstitution add 50 µl H2O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications</td>
<td>WB: 1 : 1000 up to 1 : 2000</td>
</tr>
<tr>
<td></td>
<td>IP: yes</td>
</tr>
<tr>
<td></td>
<td>ICC: 1 : 500</td>
</tr>
<tr>
<td></td>
<td>IHC: yes</td>
</tr>
<tr>
<td></td>
<td>IHC-P/FFPE: not tested yet</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Recombinant protein corresponding to AA 4 to 229 from rat Collybistin (UniProt Id: Q9QX73)</td>
</tr>
<tr>
<td>Reactivity</td>
<td>Reacts with: rat (Q9QX73), mouse (Q3UTH8). Other species not tested yet.</td>
</tr>
<tr>
<td>Specificity</td>
<td>Specific for collybistin; immunogen present in all three described splice-variants (K.O. verified)</td>
</tr>
</tbody>
</table>

**Selected References**

TO BE USED IN VITRO / FOR RESEARCH ONLY

NATIONAL TOXIC, NOT HAZARDOUS, NOT INFECTIONOUS, NOT CONTAGIOUS

The GDP/GTP-exchange factor **collybistin** is composed of a dbl homology domain (DH) and a pleckstrin homology domain (PH) connected by a linker sequence. Three splice variants with different C-terminal regions have been described, so far.

Collybistin is supposed to be involved in the clustering of gephyrin, a scaffolding protein linking glycine and GABA receptors to microtubuli.

**Selected General References**

The role of collybistin in gephyrin clustering at inhibitory synapses: facts and open questions.

Padopoulos T, Soykan T


Complex role of collybistin and gephyrin in GABAAR receptor clustering.

Sailapur L, Fuchs C, Patriot A, Sassoé-Poggiotto M, Harvey RJ, Harvey K


Increased network excitability and impaired induction of long-term potentiation in the dentate gyrus of collybistin-deficient mice in vivo.

Jedlicka P, Padopoulos T, Deller T, Betz H, Schwarzer SW


The GDP-GTP exchange factor collybistin: an essential determinant of neuronal gephyrin clustering.


Collybistin, a newly identified brain-specific GEF, induces submembrane clustering of gephyrin.

Kins S, Betz H, Kirsch J