GAD 2 / GAD 65

Cat.No. 198 111; Monoclonal mouse antibody, 100 µg purified IgG (lyophilized)

Data Sheet

Reconstitution/Storage

<table>
<thead>
<tr>
<th>Reconstitution/Storage</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 µg purified IgG, lyophilized. Azide was added before lyophilization. For reconstitution add 100 µl H₂O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.</td>
<td></td>
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</tbody>
</table>

Applications

<table>
<thead>
<tr>
<th>Applications</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB:</td>
<td>1 : 1000 (AP staining) (see remarks)</td>
</tr>
<tr>
<td>IP:</td>
<td>yes</td>
</tr>
<tr>
<td>IHC:</td>
<td>1 : 500</td>
</tr>
<tr>
<td>IHC-P/FPPE:</td>
<td>1 : 200</td>
</tr>
<tr>
<td>ELISA:</td>
<td>yes (see remarks)</td>
</tr>
</tbody>
</table>

Clone

26H1

Subtype

IgG3 (κ light chain)

Immunogen

Recombinant protein corresponding to AA 3 to 96 from mouse GAD2 (UniProt Id: P48320)

Epitop

Epitop: AA 3 to 96 from mouse GAD2 (UniProt Id: P48320)

Reactivity

Reacts with: rat (P18088), mouse (P48318). Other species not tested yet.

Specificity

Specific for GAD 2 / GAD 65

matching control

198-1P

Remarks

WB: This antibody is less sensitive than the rabbit antibody.

ELISA: Suitable as capture antibody for sandwich-ELISA with cat. no. 198 103 as detector antibody (protocol for sandwich-ELISA).

Selected References

Selected References SYSY Antibodies

<table>
<thead>
<tr>
<th>Reference</th>
<th>Title</th>
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Selected General References

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<th>Reference</th>
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The glutamic acid decarboxylases GAD 2, also referred to as GAD 65, and GAD 1 / GAD 67 synthesize γ-aminobutyric acid (GABA), the major inhibitory neurotransmitter in the central nervous system. The hydrophilic GAD 1 can heterodimerize with the membrane-anchored GAD 2 and part of GAD 1 is targeted to inhibitory nerve terminals by this mechanisms. Although both proteins exhibit significant differences in their N-terminus they share high homology in the rest of the molecule. GADs are a widely used markers for the GABAergic system. In type 1 diabetes GAD 1 has been identified as a major autoantigen.