Anti-GAD65 antibody [GAD-6] ab26113

**Product name**
Anti-GAD65 antibody [GAD-6]

**Description**
Mouse monoclonal [GAD-6] to GAD65

**Host species**
Mouse

**Specificity**
The GAD-6 monoclonal antibody ab26113 recognizes only GAD65 and has no cross reactivity with GAD67 on western blots of mouse brain or purified recombinant GAD67 and GAD65. ab26113 recognizes GAD65 primarily in nerve terminals in immunohistochemical analysis of brain sections (Kaufman et al, 1991).

**Tested applications**
Suitable for: IHC-P, WB, IHC-Fr, IHC-FoFr, ICC/IF

**Species reactivity**
Reacts with: Mouse, Rat, Human

**Predicted to work with:** Mammals

**Immunogen**
Full length protein (Rat)

**Epitope**
ab26113 recognizes an epitope near the C-terminus of GAD65

**Positive control**
mouse brain

**Form**
Liquid

**Storage instructions**
Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

**Storage buffer**
pH: 7.40
Preservative: 0.1% Sodium azide
Constituent: 0.0268% PBS

**Purity**
Protein A/G purified

**Clonality**
Monoclonal

**Clone number**
GAD-6

**Isotype**
IgG2a

**Applications**

Our Abpromise guarantee covers the use of ab26113 in the following tested applications.
**Function**
Catalyzes the production of GABA.

**Sequence similarities**
Belongs to the group II decarboxylase family.

**Post-translational modifications**
Phosphorylated; which does not affect kinetic parameters or subcellular location.
Palmitoylated; which is required for presynaptic clustering.

**Cellular localization**

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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>IHC-P</td>
<td></td>
<td>Use at an assay dependent concentration. PubMed: 18467596</td>
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<tr>
<td>WB</td>
<td>🟢🟢🟢🟢🟢</td>
<td>1/1000 - 1/20000. Detects a band of approximately 65 kDa (predicted molecular weight: 65 kDa).</td>
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<tr>
<td>IHC-Fr</td>
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<td>Use at an assay dependent concentration.</td>
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<tr>
<td>IHC-FoFr</td>
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<td>1/100. PubMed: 24246263</td>
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<tr>
<td>ICC/IF</td>
<td></td>
<td>Use at an assay dependent concentration. PubMed: 22745816</td>
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</tbody>
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**Target**

**Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GAD65 antibody (GAD-6) (ab26113)**

Mouse monoclonal [GAD-6] to GAD65 staining GAD65-containing nerve terminals around cell bodies of Purkinje cells in the rat cerebellar cortex.
Western blot - Anti-GAD65 antibody [GAD-6] (ab26113)

Anti-GAD65 antibody [GAD-6] (ab26113) at 1/1000 dilution + mouse cerebellum at 0.75 µg

Secondary
HRP horse anti-mouse IgG at 1/5000 dilution

Predicted band size: 65 kDa

Immunohistochemical analysis of frozen section from Mouse embryo, staining the glomerular layer of the brain. GAD65 is labelled with ab26113 (green) diluted 1:1000. Trb2 is labelled with ab23345 (red).

Immunohistochemical analysis of Mouse brain cortex sections, labelling GAD65 with ab26113, diluted 1/100.

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