


Product datasheet

Anti-GAD65 antibody [GAD-6] ab26113

★★★★★ 2 Abreviews 36 References 4 Images

Overview

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

Properties

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.

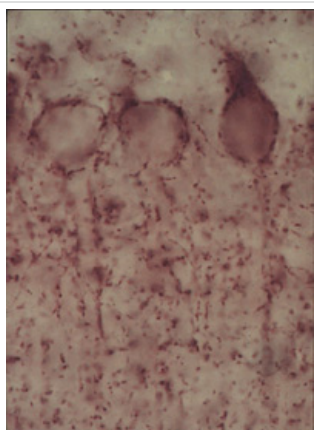
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. PubMed: 18467596
WB	★★★★★	1/1000 - 1/20000. Detects a band of approximately 65 kDa (predicted molecular weight: 65 kDa).
IHC-Fr		Use at an assay dependent concentration.
IHC-FoFr	★★★★☆☆	1/100. PubMed: 24246263
ICC/IF		Use at an assay dependent concentration. PubMed: 22745816

Target

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	Cytoplasm > cytosol. Cytoplasmic vesicle. Cell junction > synapse > presynaptic cell membrane. Golgi apparatus membrane. Associated to cytoplasmic vesicles. In neurons, cytosolic leaflet of Golgi membranes and presynaptic clusters.

Images



Mouse monoclonal [GAD-6] to GAD65 staining GAD65-containing nerve terminals around cell bodies of Purkinje cells in the rat cerebellar cortex.

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

250 kD —
150 kD —
100 kD —
75 kD —
50 kD —
37 kD —
25 kD —
20 kD —
15 kD —
10 kD —



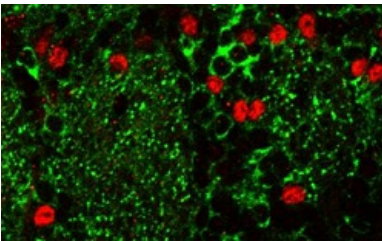
Western blot - Anti-GAD65 antibody [GAD-6]
(ab26113)

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

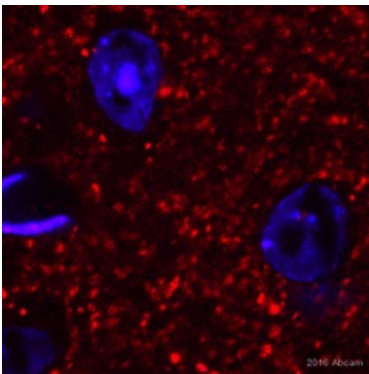
Predicted band size: 65 kDa



Immunohistochemistry (Frozen sections) - Anti-
GAD65 antibody [GAD-6] (ab26113)

Winpenny et al, Neural Development, 6, 12, Fig. 4f.; doi:
10.1186/1749-8104-6-12

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).



Immunohistochemistry (PFA perfusion fixed frozen
sections) - Anti-GAD65 antibody [GAD-6] (ab26113)

This image is courtesy of an Abreview submitted by
Patrick Ye.

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

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