

Datasheet for ABIN334405 anti-GAD antibody (Internal Region)



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1 Publication

Overview

Quantity:	100 µg
Target:	GAD (GAD1)
Binding Specificity:	Internal Region
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This GAD antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Purpose:	GAD1 (isoform GAD67)
Immunogen:	Peptide with sequence C-PDSPQRREKLHK, from the internal region of the protein sequence according to NP_000808.2.
Sequence:	PDSPQRREKL HK
Isotype:	IgG
Specificity:	This antibody is expected to recognize isoform GAD67. There is no cross-reactivity expected with GAD2.
Cross-Reactivity:	Cow, Dog, Human, Mouse, Pig, Rat
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Product Details

Grade: Verified

Target Details

Target:	GAD (GAD1)
Alternative Name:	GAD1 (GAD1 Products)
Background:	GAD1, glutamate decarboxylase 1 (brain, 67 kDa), FLJ45882, GAD, SCP, OTTHUMP00000041055, glutamate decarboxylase 1, glutamate decarboxylase 1 (brain, 67kD), GAD67, GAD25
Gene ID:	2571, 14415, 24379
NCBI Accession:	NP_000808

Application Details

Application Notes:	Western Blot: Approx 65-70 kDa band observed in Human Cerebral Cortex lysates (calculated MW of 66.9 kDa according to NP_000808.2). Recommended concentration: 0.3-1 µg/mL. Primary incubation 1hour at room temperature. Peptide ELISA: antibody detection limit dilution 1:32000.
Comment:	Immunofluorescence: Strong expression of the protein seen in A431 cells. Recommended concentration: 10µg/ml. Flow Cytometry: Flow cytometric analysis of A431 cells. Recommended concentration: 10ug/ml.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Supplied at 0.5 mg/mL in Tris saline, 0.02 % sodium azide, pH 7.3 with 0.5 % bovine serum albumin.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Minimize freezing and thawing.

Handling

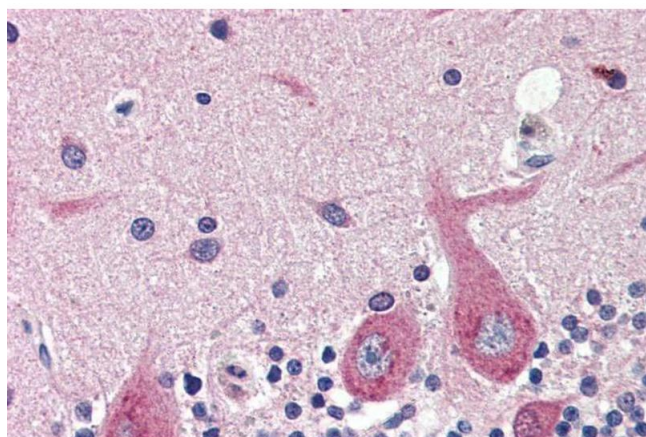
Storage: -20 °C

Storage Comment: Aliquot and store at -20°C, with minimal freeze/thawing. A working aliquot may be refrigerated at 4°C for a few weeks and still remain viable.

Publications

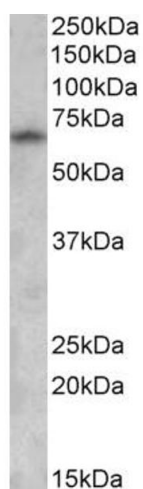
Product cited in: Magri, Giacomuzzi, La Via, Bonini, Ravasio, Elhussiny, Orizio, Gangemi, Valsecchi, Bresciani, Barbon, Vita, Gennarelli: "A novel homozygous mutation in GAD1 gene described in a schizophrenic patient impairs activity and dimerization of GAD67 enzyme." in: **Scientific reports**, Vol. 8, Issue 1, pp. 15470, (2018) ([PubMed](#)).

Images



Immunohistochemistry

Image 1. ABIN334405 (4µg/ml) staining of paraffin embedded Human Cerebellum. Steamed antigen retrieval with citrate buffer pH 6, AP-staining. This data is from a previous batch, not on sale.



Western Blotting

Image 2. ABIN334405 (0.5µg/ml) staining of Human Brain (Cerebral Cortex) lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

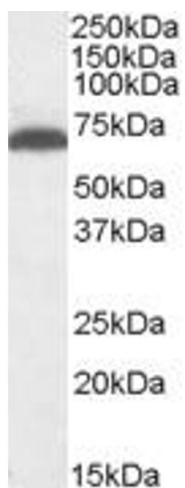


Image 3. ABIN334405 (1µg/ml) staining of Mouse Brain lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.