Datasheet
Revision date: 08 Oct 2024

BIOTECH ASSAY Inc.

Glutamate Decarboxylase 2 (GAD2) Antibody Pair

Catalogue No.:BTA100029

Glutamate Decarboxylase 2 (GAD2) Antibody Pair for use in Sandwich ELISA assay development. This antibody pair contains:

Component	5 × 96 tests	10 × 96 tests
Capture Antibody	200 µg	400 µg
Biotin-Conjugated Detection Antibody	50 µg	100 µg
Standard	2 µg	10 µg

Please note that quantities and concentrations may change between different batches.

It is recommended to use this antibody pair with abx098958 Antibody Pair Support Kit (Sandwich Method).

Target: Glutamate Decarboxylase 2 (GAD2)

Reactivity: Human

Tested Applications: ELISA

Recommended dilutions: Dilute the Capture Antibody 125-fold with Coating Buffer.
Dilute the Biotin-Conjugated Detection Antibody 200-fold with Detection Antibody Diluent.
Optimal dilutions/concentrations should be determined by the end user.

Form: Liquid (Capture Antibody and Detection Antibody)

Reconstitution: Reconstitute the standard with Standard Diluent. The volume, and therefore standard concentration, should be determined by the end user.

Storage: Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.

UniProt Primary AC: Q05329 (**UniProt**, **ExPASy**)

Gene Symbol: GAD2

GeneID: **2572**

OMIM: **138275**

NCBI Accession: NM_000818.2, NM_001134366.1

HGNC: 4093

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KEGG:	hsa:2572
Ensembl:	ENSG00000136750
String:	9606.ENSP00000365437
Buffer:	The Capture and Detection Antibody both contain 0.1% sodium azide.
Standard Form:	Lyophilized
Assay Type:	Sandwich
Capture Antibody Conjugation:	Unconjugated
Detection Antibody Conjugation:	Biotin
Concentration:	Capture Antibody: 0.5 mg/ml Biotin-Conjugated Detection Antibody: 0.2 mg/ml
Note:	This product is for research use only.

Directions for use:

Bring all components to room temperature (18-25°C) and briefly spin or centrifuge the vials before use. Working solutions should be prepared and used immediately.

Recommended Procedure:

1. Dilute the Capture Antibody to working concentration using Coating Buffer. Immediately coat the 96-well plate with diluted Capture Antibody (100 µl per well). Seal the plate and incubate at 4 °C overnight or at 37 °C for 2 hours
2. Aspirate the wells and wash with Wash Buffer (350 µl per well) and allow to soak for 1-2 min. Remove the liquid by inverting and tapping the plate on to absorbent paper.
2. Block the plate with Blocking Buffer (200 µl per well) at 37 °C for 1.5 hours.
3. Repeat the aspiration/wash process in Step 2.
4. Add 100 µl of standards or sample into the appropriate wells. Cover with a plate sealer and incubate at 37 °C for 1 hour.
5. Repeat the aspiration/wash process in Step 2.
6. Add appropriately diluted Biotin-Conjugated Detection Antibody (100 µl per well). Cover the plate with a new plate sealer and incubate at 37 °C for 1 hour.
7. Repeat the aspiration/wash process in Step 2.
8. Add appropriately diluted Streptavidin HRP (100 µl per well). Cover the plate with a new plate sealer and incubate at 37 °C for 30 min.
9. Repeat the aspiration/wash process in Step 2.
10. Add Substrate Solution (90 µl per well). Cover the plate with a new plate sealer and incubate at 37 °C for 10-20 min. Keep the plate in the dark and avoid exposure to light.
11. Add Stop Solution (50 µl per well). Tap the side of the plate to ensure thorough mixing.