

Product Datasheet

GAD1/GAD67 Antibody (OTI3G9) NBP1-48272

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

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NBP1-48272

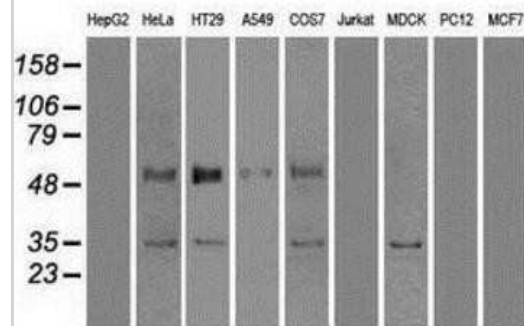
GAD1/GAD67 Antibody (OTI3G9)

Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	OTI3G9
Preservative	0.02% Sodium Azide
Isotype	IgG2b
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.3), 1.0% BSA and 50% Glycerol
Target Molecular Weight	66.9 kDa
Product Description	
Description	Novus Biologicals Mouse GAD1/GAD67 Antibody (OTI3G9) (NBP1-48272) is a monoclonal antibody validated for use in IHC, WB, ELISA, ICC/IF and IP. Anti-GAD1/GAD67 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	2571
Gene Symbol	GAD1
Species	Human, Mouse, Rat, Monkey, Zebrafish
Reactivity Notes	Use in Zebrafish reported in scientific literature (PMID:33539794). Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
Specificity/Sensitivity	This antibody is specific for Homo sapiens glutamate decarboxylase 1 (brain, 67kDa) (GAD1), transcript variant GAD67.
Immunogen	Full length human recombinant protein of human GAD1 (NP_000808) produced in HEK293T cell.
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Peptide ELISA
Recommended Dilutions	Western Blot 1:1000-1:2000, Immunohistochemistry 1:50, Immunocytochemistry/Immunofluorescence 1:50, Immunoprecipitation 4ug/ml, Immunohistochemistry-Paraffin 1:50, Peptide ELISA Reported in scientific literature (PMID: 25358241)

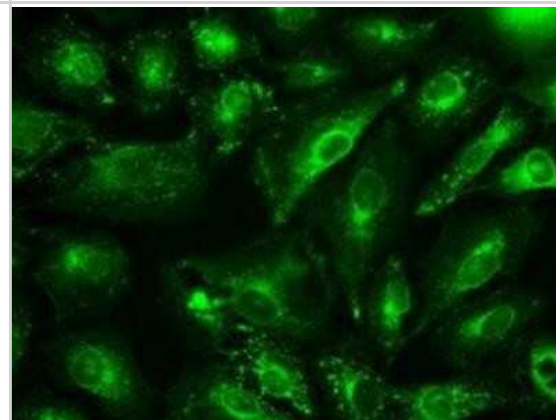


Images

Western Blot: GAD1/GAD67 Antibody (OTI3G9) [NBP1-48272] - Analysis of extracts (35ug) from 9 different cell lines by using anti-GAD1/GAD67 monoclonal antibody.



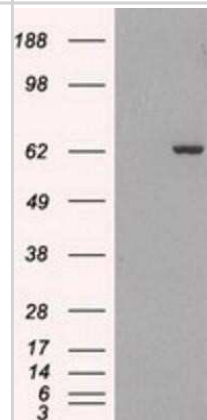
Immunocytochemistry/Immunofluorescence: GAD1/GAD67 Antibody (OTI3G9) [NBP1-48272] - Immunofluorescent staining of A549 cells using anti-GAD1/GAD67 mouse monoclonal antibody.



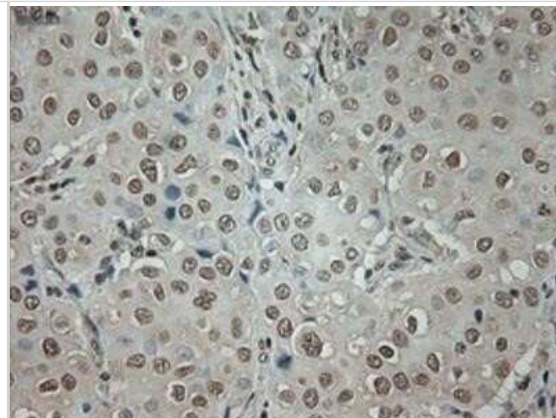
Immunohistochemistry-Paraffin: GAD1/GAD67 Antibody (OTI3G9) [NBP1-48272] - Staining of paraffin-embedded Human pancreas tissue using anti-GAD1/GAD67 mouse monoclonal antibody.



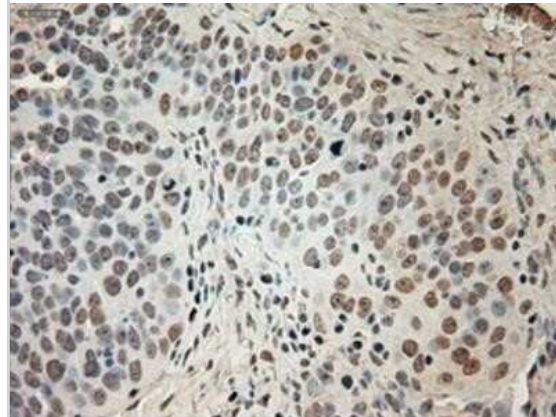
Western Blot: GAD1/GAD67 Antibody (OTI3G9) [NBP1-48272] - HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GAD1/GAD67 (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GAD1/GAD67.



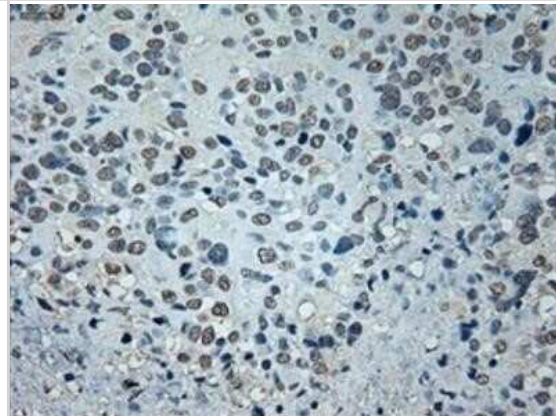
Immunohistochemistry-Paraffin: GAD1/GAD67 Antibody (OTI3G9) [NBP1-48272] - Staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-GAD1/GAD67 mouse monoclonal antibody.



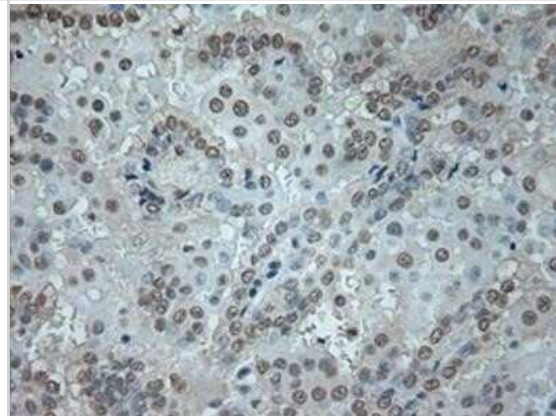
Immunohistochemistry-Paraffin: GAD1/GAD67 Antibody (OTI3G9) [NBP1-48272] - Staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-GAD1/GAD67 mouse monoclonal antibody.



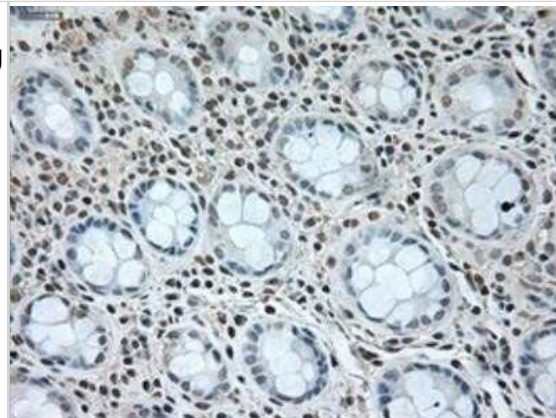
Immunohistochemistry-Paraffin: GAD1/GAD67 Antibody (OTI3G9) [NBP1-48272] - Staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-GAD1/GAD67 mouse monoclonal antibody.



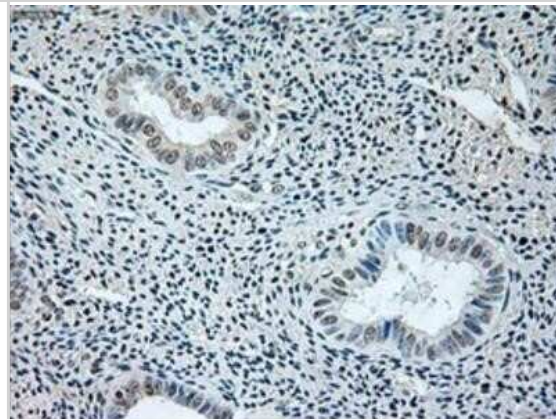
Immunohistochemistry-Paraffin: GAD1/GAD67 Antibody (OTI3G9) [NBP1-48272] - Staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-GAD1/GAD67 mouse monoclonal antibody.



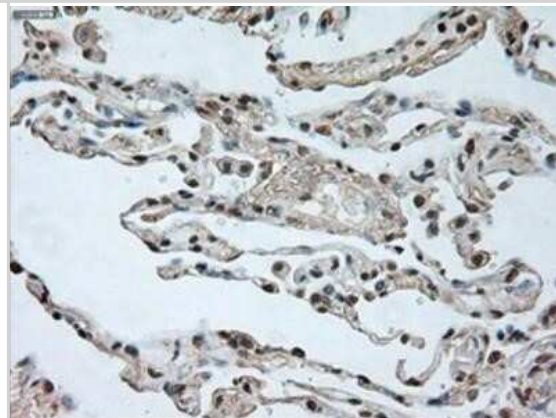
Immunohistochemistry-Paraffin: GAD1/GAD67 Antibody (OTI3G9) [NBP1-48272] - Staining of paraffin-embedded Human colon tissue using anti-GAD1/GAD67 mouse monoclonal antibody.



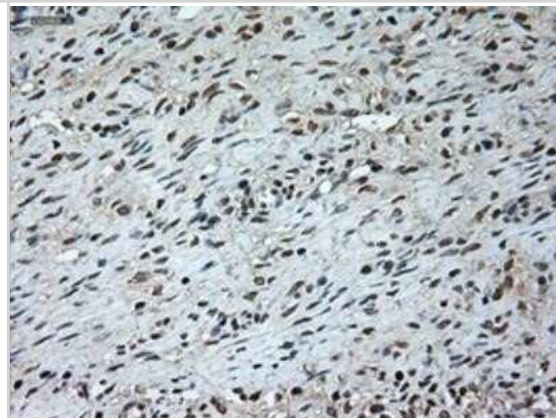
Immunohistochemistry-Paraffin: GAD1/GAD67 Antibody (OTI3G9) [NBP1-48272] - Staining of paraffin-embedded Human endometrium tissue using anti-GAD1/GAD67 mouse monoclonal antibody.



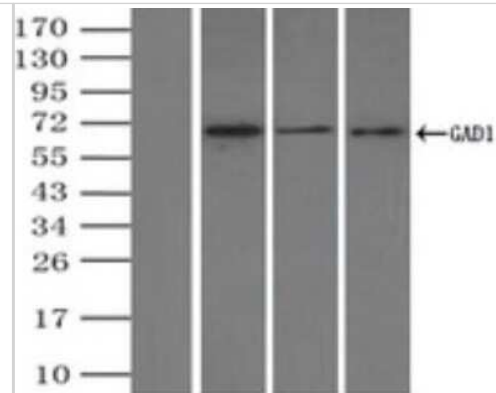
Immunohistochemistry-Paraffin: GAD1/GAD67 Antibody (OTI3G9) [NBP1-48272] - Staining of paraffin-embedded Human lung tissue using anti-GAD1/GAD67 mouse monoclonal antibody.



Immunohistochemistry-Paraffin: GAD1/GAD67 Antibody (OTI3G9) [NBP1-48272] - Staining of paraffin-embedded Human Ovary tissue using anti-GAD1/GAD67 mouse monoclonal antibody.



Immunoprecipitation: GAD1/GAD67 Antibody (OTI3G9) [NBP1-48272] - Negative control: IP without adding anti-GAD1 antibody.). For each experiment, 500ul of DDK tagged GAD1 overexpression lysates (at 1:5 dilution with HEK293T lysate), 2ug of anti-GAD1 antibody and 20ul (0.1mg) of goat anti-mouse conjugated magnetic beads were mixed and incubated overnight. After extensive wash to remove any non-specific binding, the immuno-precipitated products were analyzed with rabbit anti-DDK polyclonal antibody.



Publications

Budaszewski Pinto C, de SA Couto-Pereira N, Kawa Odorcyk F et al. Effects of acute seizures on cell proliferation, synaptic plasticity and long-term behavior in adult zebrafish Brain research 2021-04-01 [PMID: 33539794] (WB, Zebrafish)

Agca S, Houen G, Trier Nh. Characterization of continuous B-cell epitopes in the n-terminus of glutamate decarboxylase67 using monoclonal antibodies J. Pept. Sci. 2014-12-01 [PMID: 25358241] (PEP-ELISA, Human)

Details:

GAD1/GAD67 antibody used for a modified PEP-ELISA on 59 different peptides - overlapping (10 amino acids) 20-mer peptides, covering the complete human GAD67 sequence (Ac. no: Q99259). The antibody was found to show reactivity to linear epitope located at the n-terminal end of GAD67 - amino acids 91- 99 : TETDFS_nLF



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Products Related to NBP1-48272

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP2-27231	Mouse IgG2b Isotype Control (MPC-11)

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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