

Product Datasheet

GAD67 Rabbit Polyclonal Antibody (orb555997)

Catalog Number	orb555997
Category	Antibodies
Description	Rabbit polyclonal antibody to GAD67
Target	This antibody is specific for GAD67 protein, and it does not cross-react with GAD65 protein
Clonality	Polyclonal
Species/Host	Rabbit
Isotype	IgG
Conjugation	Unconjugated
Reactivity	Human, Monkey, Mouse, Rat, Zebrafish
Form/Appearance	PBS, 1% rAlbumin, 20% Glycerol, 0.025% ProClin 300
Concentration	Batch specific - Reach out to find out the current concentration
Purity	Purified by antigen-affinity chromatography
Purification	Purified by antigen-affinity chromatography.
Immunogen	Recombinant protein encompassing a sequence within the N-terminus region of human GAD67
UniProt ID	Q99259
MW	67 kDa
Tested applications	ICC, IF, IHC, WB

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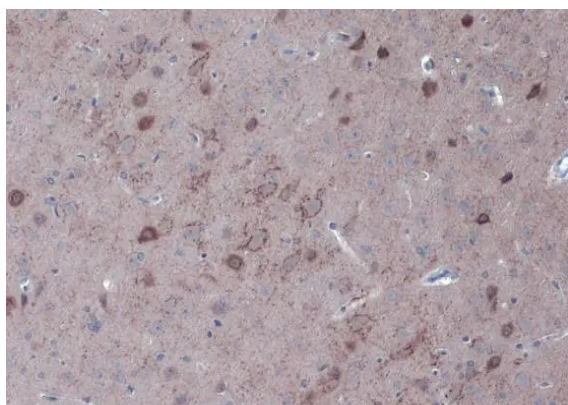
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Dilution range	WB: 1:500-1:3000 , ICC/IF: 1:100-1:1000 , IHC-P: 1:100-1:1000 , IHC-Fr: 1:100-1:1000
Application notes	Positive control: human GAD1-transfected 293T
Specificity	This antibody is specific for GAD67 protein, and it does not cross-react with GAD65 protein.
Antibody Type	Primary Antibody
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles
Background	This gene encodes one of several forms of glutamic acid decarboxylase, identified as a major autoantigen in insulin-dependent diabetes. The enzyme encoded is responsible for catalyzing the production of gamma-aminobutyric acid from L-glutamic acid. A pathogenic role for this enzyme has been identified in the human pancreas since it has been identified as an autoantigen and an autoreactive T cell target in insulin-dependent diabetes.
Note	For research use only
Expiration Date	12 months from date of receipt.



IHC-P Image - GAD67 antibody detects GAD67 protein at cytoplasm by immunohistochemical analysis. Sample: Paraffin-embedded rat brain. GAD67 stained by GAD67 antibody (orb555997) diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min

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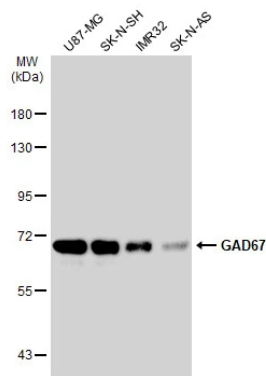
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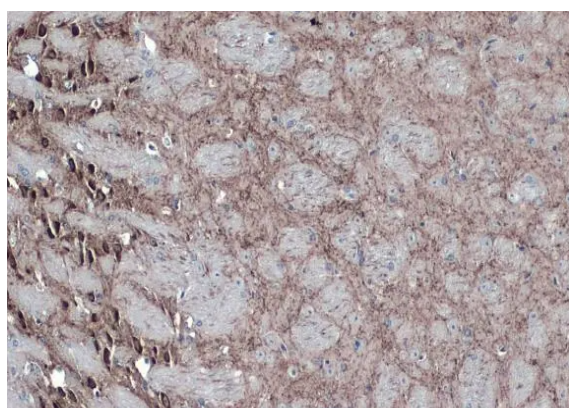
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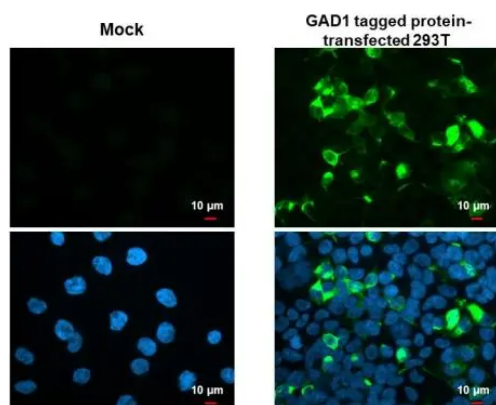
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Various whole cell extracts (30 µg) were separated by 7.5% SDS-PAGE, and the membrane was blotted with GAD67 antibody diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody



GAD67 antibody detects GAD67 protein at cytoplasm by immunohistochemical analysis. Sample: Paraffin-embedded mouse brain. GAD67 stained by GAD67 antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



GAD67 antibody detects GAD67 protein by immunofluorescent analysis. Sample: Mock and transfected 293T cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: GAD67 stained by GAD67 antibody diluted at 1:500. Blue: Fluoroshield with DAPI

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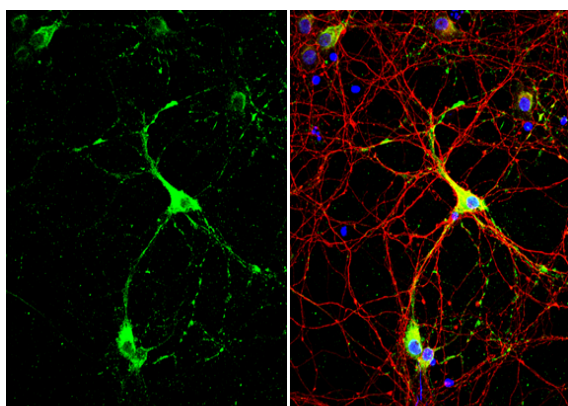
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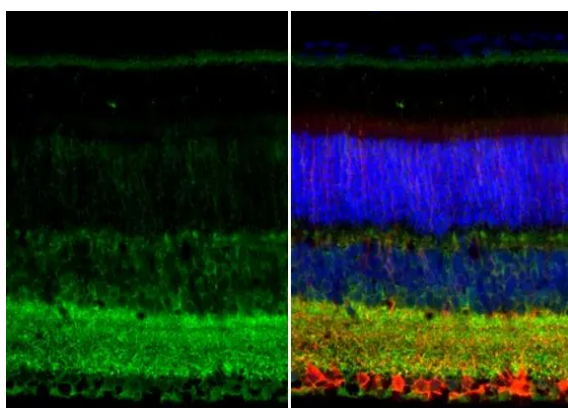
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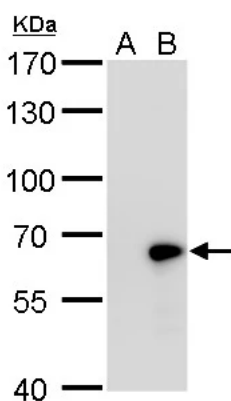
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GAD67 antibody detects GAD67 protein by immunofluorescent analysis. Sample: DIV10 rat E18 primary cortical neuron cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: GAD67 stained by GAD67 antibody diluted at 1:500. Red: Tau, stained by Tau antibody diluted at 1:500. Blue: Fluoroshield with DAPI



GAD67 antibody detects GAD67 protein at cell membrane and cytoplasm by immunohistochemical analysis. Sample: Paraffin-embedded mouse eye. Green: GAD67 stained by GAD67 antibody diluted at 1:250. Red: beta Tubulin 3/ Tuj1, a neural marker, stained by beta Tubulin 3/ Tuj1 antibody diluted at 1:500. Blue: Fluoroshield with DAPI Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



GAD67 antibody detects GAD67 protein by western blot analysis. A. 30 µg 293T whole cell lysate/extract B. 30 µg whole cell lysate/extract of human GAD1-transfected 293T cells 7.5% SDS-PAGE GAD67 antibody dilution: 1:5000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody

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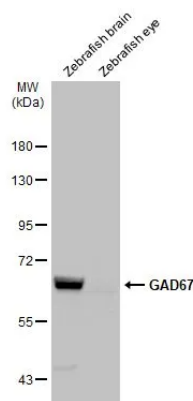
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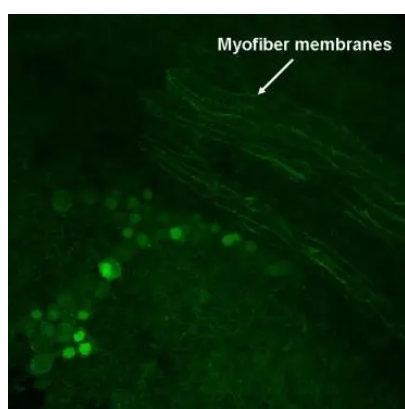
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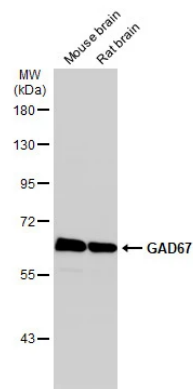
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Various tissue extracts (30 μ g) were separated by 7.5% SDS-PAGE, and the membrane was blotted with GAD67 antibody diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody



GAD67 antibody detects GAD67 protein on myofiber membranes by immunohistochemical analysis. Sample: Whole-mount zebrafish embryo GAD67 antibody dilution: 1:200



Various tissue extracts (50 μ g) were separated by 7.5% SDS-PAGE, and the membrane was blotted with GAD67 antibody diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody

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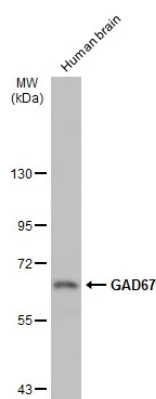
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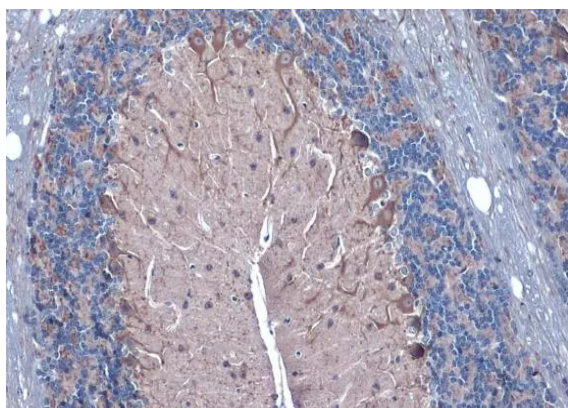
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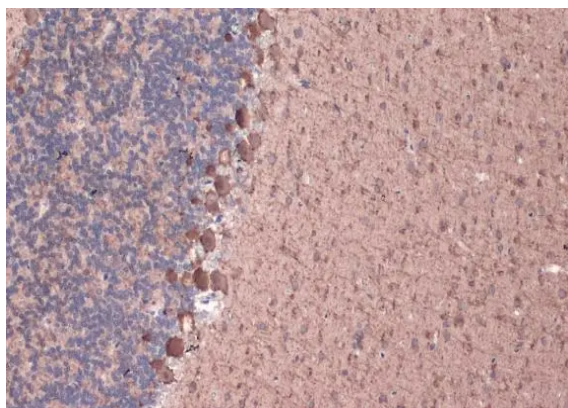
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Human tissue extract (30 µg) was separated by 7.5% SDS-PAGE, and the membrane was blotted with GAD67 antibody diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody



GAD67 antibody detects GAD67 protein at cell membrane and cytoplasm by immunohistochemical analysis. Sample: Paraffin-embedded mouse cerebellum. GAD67 stained by GAD67 antibody diluted at 1:1000. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



GAD67 antibody detects GAD67 protein at cell membrane and cytoplasm by immunohistochemical analysis. Sample: Paraffin-embedded rat cerebellum. GAD67 stained by GAD67 antibody diluted at 1:1000. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min

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