

## Goat anti-GAD1 (isoform GAD67) Antibody

<b>Item Number</b>	dAP-1654
<b>Target Molecule</b>	Principle Name: GAD1 (isoform GAD67); Official Symbol: GAD1; All Names and Symbols: GAD1; glutamate decarboxylase 1 (brain, 67kDa); FLJ45882; GAD; SCP; OTTHUMP00000041055; glutamate decarboxylase 1; glutamate decarboxylase 1 (brain, 67kD); GAD67; GAD25; Accession Number (s): NP_000808.2; Human Gene ID(s): 2571; Non-Human GeneID(s): 14415 (mouse) 24379 (rat)
<b>Immunogen</b>	PDSPQRREKLHK, is from internal region This antibody is expected to recognize isoform GAD67. There is no cross-reactivity expected with GAD2.
<b>Applications</b>	Pep ELISA, WB  Species Tested: Human
<b>Purification</b>	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
<b>Supplied As</b>	lyophilized powder of 50ug or 100ug IgG; Reconstitute IgG with 100ul or 200ul sterile DI Water and final product will be formulated as 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.
<b>Peptide ELISA</b>	Peptide ELISA: antibody detection limit dilution 1 to 32000.
<b>Western Blot</b>	Western Blot: Approx 65kDa band observed in Human Brain (Cerebral Cortex) lysates (calculated MW of 66.9kDa according to NP_000808.2). Recommended concentration: 0.5-1.5µg/ml. Primary incubation was 1 hour. Preliminary testing was unsuccessful on Mouse
<b>IHC</b>	
<b>Reference</b>	Reference(s): Huang HS, Akbarian S. GAD1 mRNA expression and DNA methylation in prefrontal cortex of subjects with schizophrenia. PLoS ONE 2007 2 (8): e809..PMID: 17726539->

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**