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Datasheet for 600-401-BN7

GRIK3 Antibody

Overview

Description:	Anti-GRIK3 (RABBIT) Antibody - 600-401-BN7
Item No.:	600-401-BN7
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. Grik3, also known as glutamate receptor 7, belongs to the kainate family of glutamate receptors, which are composed of four subunits and function as ligand-activated ion channels. Grik3 is highly homologous to the related ionotrophic glutamate receptors Grik2 and Grik1. Grik3 has recently been shown to be an essential subunit of presynaptic kainate autoreceptors at hippocampal mossy fiber synapses as grik3-null mice show significantly reduced short- and long-term synaptic potentiation. Other reports have suggested that different polymorphisms in the Grik3 protein may be associated with neurological defects such as recurrent major depressive disorder and schizophrenia. This Grik3 antibody does not cross-react with Grik2.
Synonyms:	Grik3 Antibody, EAA5, GLR7, GLUR7, GluK3, GluR7a, Glutamate receptor ionotropic, kainate 3, Excitatory amino acid receptor 5
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	GRIK3
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Grik3 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 13 amino acid synthetic peptide near the N-terminus of the human Grik3.
Purity/Specificity:	Anti-Grik3 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Grik3 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q13003 • GeneID - 2899 • NCBI - CAI19119

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-Grik3 Antibody has been tested for use in ELISA and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 104 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
WB:	1-2 µg/mL

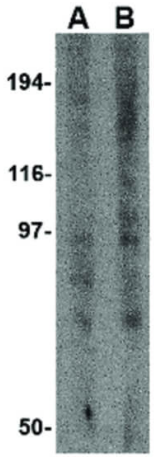
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western Blot of Grik3 antibody. Lane A: Human brain tissue lysate at 1 µg/mL. Lane B: Human brain tissue lysate at 2 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C.
Predicted/Observed size: 104 kDa, ~96 kDa for Grik3. Other band(s): Grik3 splice variants and isoforms.

Disclaimer

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