Datasheet for ABIN2776332

anti-GRIK2 antibody (N-Term)

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Overview

Quantity:	100 µL
Target:	GRIK2
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Dog, Cow, Rabbit, Guinea Pig, Horse, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GRIK2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human GRIK2
Sequence:	PDFSSLSRAI LDLVQFFKWK TVTVVYDDST GLIRLQELIK APSRYNLRLK
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 100%
Characteristics:	This is a rabbit polyclonal antibody against GRIK2. It was validated on Western Blot and immunohistochemistry.
Purification:	Protein A purified

Target Details

Target:	GRIK2

Target Details

Alternative Name:	GRIK2 (GRIK2 Products)
Background:	The GRIK2 gene encodes a subunit of a kainate glutamate receptor. Glutamate receptors mediate the majority of excitatory neurotransmission in the brain. This receptor may have a role in synaptic plasticity and may be important for learning and memory. It also may be involved in the transmission of light information from the retina to the hypothalamus. The structure and function of the encoded protein is changed by RNA editing. Protein Interaction Partner: CALCOCO1, TRIM25, PICK1, DLG4, LIN7B, GRID2, PRKAA1, SDCBP, CTNND1, DLG1, GRIK5, GRIK4, DLG3, CASK, GRIA1, GRIK2, CTNNB1, CDH2, GRIP1, GRIA2, Protein Size: 908
Molecular Weight:	102 kDa
Gene ID:	2898
UniProt:	Q13002
Pathways:	Synaptic Membrane, Regulation of long-term Neuronal Synaptic Plasticity

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 908 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small

Handling

aliquots to prevent freeze-thaw cycles.

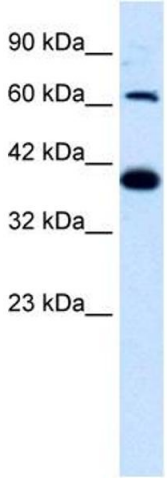
Publications

Product cited in:

Funk, Janech, Dillon, Bissler, Siroky, Bell: "Characterization of renal toxicity in mice administered the marine biotoxin domoic Acid." in: **Journal of the American Society of Nephrology : JASN**, Vol. 25, Issue 6, pp. 1187-97, (2014) (PubMed).

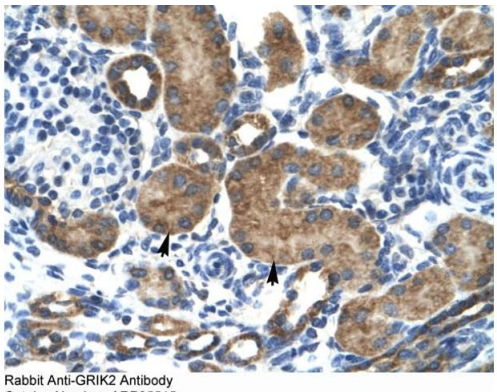
Delorme, Krebs, Chabane, Roy, Millet, Mouren-Simeoni, Maier, Bourgeron, Leboyer: "Frequency and transmission of glutamate receptors GRIK2 and GRIK3 polymorphisms in patients with obsessive compulsive disorder." in: **Neuroreport**, Vol. 15, Issue 4, pp. 699-702, (2004) (PubMed).

Images



Western Blotting

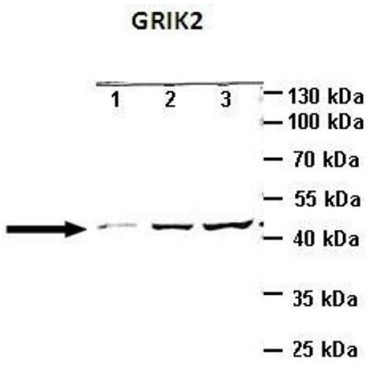
Image 1. WB Suggested Anti-GRIK2 Antibody Titration: 1.25ug/ml ELISA Titer: 1:1562500 Positive Control: Jurkat cell lysate



Rabbit Anti-GRIK2 Antibody
Catalog Number: ARP35515
Lot Number: QC5291
Paraffin Embeded Tissue: Human Kidney
Cells with Positive label: Epithelial cells of renal tubule (Indicated with Arrows)
Antibody Concentration: 4.0-8.0 µg/ml
Magnification: 400X

Immunohistochemistry

Image 2. Human kidney



See Immunoblot 2 Data and Customer Feedback for more Information

Western Blotting

Image 3. Lanes: Lane1: 10ug mouse cortex brain lysate Lane2: 25ug mouse cortex brain lysate Lane3: 40ug mouse cortex brain lysate Primary Antibody Dilution: 1:1000 Secondary Antibody: Anti-rabbit HRP Secondary Antibody Dilution: 1:2000 Gene Name: GRIK2 Submitted by: Anonymous