

## Datasheet for ABIN630095 **anti-GRIK2 antibody (N-Term)**

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### Overview

Quantity:	100 µg
Target:	GRIK2
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Dog
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GRIK2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

### Product Details

Immunogen:	GRIK2 antibody was raised using the N terminal of GRIK2 corresponding to a region with amino acids PDFSSLSRAILDLVQFFKWKTVTVVYDDSTGLIRLQELIKAPSRYNLRLK
Specificity:	GRIK2 antibody was raised against the N terminal of GRIK2
Purification:	Purified

### Target Details

Target:	GRIK2
Alternative Name:	GRIK2 ( <a href="#">GRIK2 Products</a> )
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

## Target Details

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the transmission of light information from the retina to the hypothalamus. The structure and function of the encoded protein is changed by RNA editing.

Molecular Weight: 40 kDa (MW of target protein)

Pathways: [Synaptic Membrane, Regulation of long-term Neuronal Synaptic Plasticity](#)

## Application Details

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Application Notes: WB: 1.25 µg/mL, IHC: 4-8 µg/mL  
Optimal conditions should be determined by the investigator.

Comment: GRIK2 Blocking Peptide, catalog no. 33R-7009, is also available for use as a blocking control in assays to test for specificity of this GRIK2 antibody

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Lyophilized powder. Add distilled water for a 1 mg/mL concentration of GRIK2 antibody in PBS

Concentration: Lot specific

Buffer: PBS

Handling Advice: Avoid repeated freeze/thaw cycles.  
Dilute only prior to immediate use.

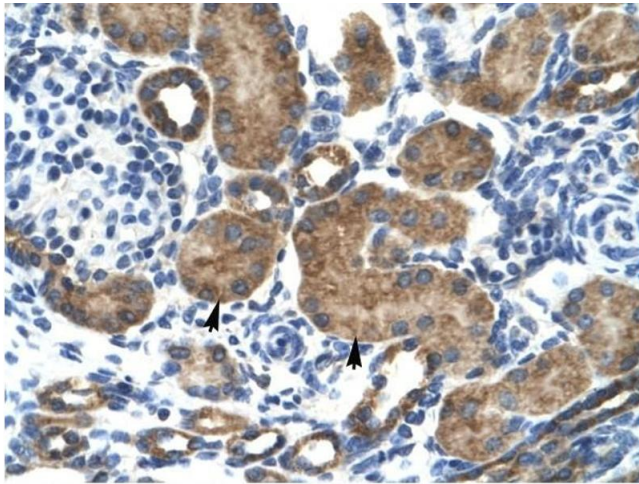
Storage: 4 °C/-20 °C

Storage Comment: Store at 2-8 °C for short periods. For longer periods of storage, store at -20 °C.

## Publications

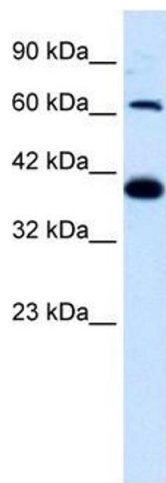
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Product cited in: Kindt, Sheets: "Transmission Disrupted: Modeling Auditory Synaptopathy in Zebrafish." in: **Frontiers in cell and developmental biology**, Vol. 6, pp. 114, (2018) ([PubMed](#)).



### Immunohistochemistry

**Image 1.** GRIK2 antibody was used for immunohistochemistry at a concentration of 4-8 ug/ml to stain Epithelial cells of renal tubule (arrows) in Human Kidney. Magnification is at 400X



### Western Blotting

**Image 2.** GRIK2 antibody used at 1.25 ug/ml to detect target protein.