

GRIK1 Polyclonal Antibody

Catalog NumberPA5-20448

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse, Rat
Host/Isotope	Rabbit / IgG	Tested Applications	Dilution *
Class	Polyclonal		
Type	Antibody		
Immunogen	A 16 amino acid peptide near the center of the human Grik1.	Immunohistochemistry (IHC)	2.5 µg/mL
Conjugate	Unconjugated	Western Blot (WB)	0.5-1 µg/mL
Form	Liquid	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Concentration	1 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	PBS		
Contains	0.02% sodium azide		
Storage Conditions	Maintain refrigerated at 2-8°C for up to 3 months. For long term storage store at -20°C		

Product specific information

A suggested positive control is rat brain tissue lysate. PA5-20448 can be used with blocking peptide PEP-0565.

Background/Target Information

Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. Grik1, also known as glutamate receptor 5, belongs to the kainate family of glutamate receptors, which are composed of four subunits and function as ligand-activated ion channels. Grik1 is expressed in GABAergic interneurons of the hippocampus and are thought to participate in the formation of various subtypes of kainate receptors with Grik2 and KA2. Stimulation of Grik1 leads to intracellular calcium release and activation of protein kinase C. Excessive activation has been associated with psychiatric, neurological and neurodegenerative diseases. Numerous isoforms of Grik1 are known to exist and may be subject to RNA editing within the second transmembrane domain, which is thought to alter the properties of ion flow.

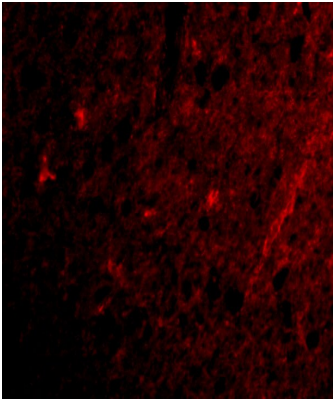
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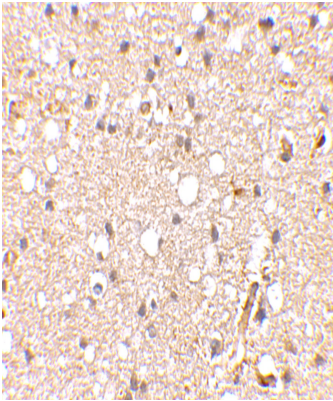
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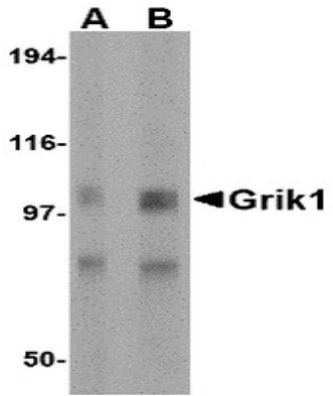
Product Images For GRIK1 Polyclonal Antibody



**GRIK1 Antibody (PA5-20448) in ICC/IF**  
Immunofluorescence of Grik1 in Human Brain cells with GRIK1 Polyclonal Antibody (Product # PA5-20448) at 20 µg/mL.



**GRIK1 Antibody (PA5-20448) in IHC**  
Immunohistochemical staining of human brain tissue using GRIK1 Polyclonal Antibody (Product # PA5-20448) at 2.5 µg/mL.



**GRIK1 Antibody (PA5-20448) in WB**  
Western Blot analysis of Grik1 in rat brain tissue lysate with GRIK1 Polyclonal Antibody (Product # PA5-20448) at (A) 0.5 and (B) 1 µg/mL.

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