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anti-GRIA2 antibody





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Quantity:	200 μL
Target:	GRIA2
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GRIA2 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	Synthetic peptide of human GRIA2
Isotype:	IgG
Characteristics:	Polyclonal Antibody
Purification:	Affinity purification

Target Details

Target:	GRIA2	
Alternative Name:	GluR2 (GRIA2 Products)	
Background:	Glutamate receptors are the predominant excitatory neurotransmitter receptors in the	
	mammalian brain and are activated in a variety of normal neurophysiologic processes. This	
	gene product belongs to a family of glutamate receptors that are sensitive to alpha-amino-3-	
	hydroxy-5-methyl-4-isoxazole propionate (AMPA), and function as ligand-activated cation	

channels. These channels are assembled from 4 related subunits, GRIA1-4. The subunit encoded by this gene (GRIA2) is subject to RNA editing (CAG->CGG, Q->R) within the second transmembrane domain, which is thought to render the channel impermeable to Ca(2+). Human and animal studies suggest that pre-mRNA editing is essential for brain function, and defective GRIA2 RNA editing at the Q/R site may be relevant to amyotrophic lateral sclerosis (ALS) etiology. Alternative splicing, resulting in transcript variants encoding different isoforms, (including the flip and flop isoforms that vary in their signal transduction properties), has been noted for this gene.

 NCBI Accession:
 NP_000817

 UniProt:
 P42262

Pathways: PI3K-Akt Signaling

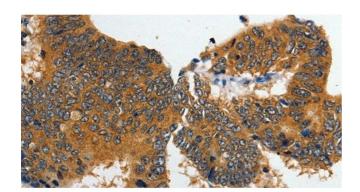
Application Details

Application Notes: IHC 1:100-1:300

Restrictions: For Research Use only

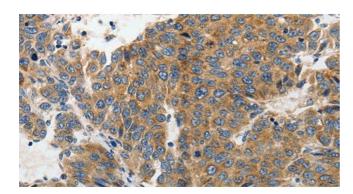
Handling

Format:	Liquid
Concentration:	0.4 mg/mL
Buffer:	PBS with 0.05 % sodium azide and 50 % glycerol, PH7.4
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of paraffin-embedded Human colon cancer tissue using GluR2 Polyclonal Antibody at dilution 1:70



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Immunohistochemistry of paraffin-embedded Human liver cancer tissue using GluR2 Polyclonal Antibody at dilution 1:70