

Kv4.2 (Phospho Ser616) Rabbit pAb

CatalogNo: YP1005

Key Features

Host Species Rabbit 	Reactivity Human,Mouse,Rat 	Applications IHC,IF,ELISA
MW • 71kD (Calculated)	Isotype • IgG	

Recommended Dilution Ratios

IHC 1:100-1:300 ELISA 1:5000 IF 1:50-200

Storage

Storage*-15°C to -25°C/1 year(Do not lower than -25°C)FormulationLiquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality Polyclonal

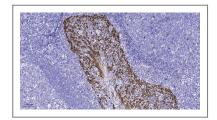
Immunogen Information

ImmunogenSynthesized phospho-peptide around the phosphorylation site of human Kv4.2 (phospho
Ser616)SpecificityPhospho-Kv4.2 (S616) Polyclonal Antibody detects endogenous levels of Kv4.2 protein
only when phosphorylated at S616.The name of modified sites may be influenced by
many factors, such as species (the modified site was not originally found in human
samples) and the change of protein sequence (the previous protein sequence is
incomplete, and the protein sequence may be prolonged with the development of protein
sequencing technology). When naming, we will use the "numbers" in historical reference
to keep the sites consistent with the reports. The antibody binds to the following
modification sequence (lowercase letters are modification sites):PEsPE

Target Information

Gene name	KCND2		
Protein Name	Potassium voltage-gated channel su Organism	bfamily D member 2 Gene ID	UniProt ID
	Human	<u>3751;</u>	<u>Q9NZV8;</u>
	Mouse	<u>16508;</u>	<u>Q9Z0V2;</u>
	Rat	<u>65180;</u>	<u>Q63881;</u>
Cellular Localization	Cell membrane ; Multi-pass membra synapse . Perikaryon . Cell junction, dendritic spine . Cell junction . In ne and on the neuron cell body, but no pyramidal cells in the hippocampus at cell junctions that are distinct fro Detected primarily at the endoplasm (PubMed:15454437). Interaction wit expression at the cell membrane (Pu DPP6 or DPP10 promotes expression the cell membrane by clathrin-depe selective glutamate receptors and P from dendritic spines to the main de glutamate receptors and activation	synapse, postsynaptic cell mer urons, primarily detected on de t on axons. Localized preferenti CA1 layer. Detected at GABAer m synaptic cell contacts. Detect nic reticulum or Golgi when exp h KCNIP1, KCNIP2, KCNIP3 or Ko ubMed:15454437, PubMed:248 n at the cell membrane (By simi ndent endocytosis in response KA-mediated phosphorylation at endritic shaft in response to act	mbrane . Cell projection, endrites, dendritic spines ially at the dendrites of rgic synapses. Detected ted in lipid rafts. pressed by itself CNIP4 promotes 11166). Interaction with ilarity). Internalized from to activation of AMPA- at Ser-552. Redistributed
Tissue specificity	Detected in ovary, in corpus luteum protein level) (PubMed:15991246). I (PubMed:10551270, PubMed:10729) cerebellum, hippocampus, substant PubMed:10729221). Expression is n pancreas and skeletal muscle (PubM human heart atrium (PubMed:12395	Highly expressed throughout th 221). Detected in amygdala, ca a nigra and thalamus (PubMed ot detectable or very low in hea led:10551270, PubMed:107292	e brain Judate nucleus, :10551270, art, kidney, liver, lung,
Function	Domain:The segment S4 is probably positively charged amino acids at ex- subunit of voltage-gated rapidly ina- I(To) current in heart and I(Sa) curre- interactions with other alpha subuni serine and threonine residues.,simil- subfamily.,subcellular location:Dete Association with KCNIP2 probably er or heterotetramer with KCND1 and/o similarity). Interacts with DLG1. Asso KCNIP3 and KCNIP4. Probably part o KCND2. The KCND2-KCNIP2 channel subunits. Interacts with FLNA, FLNC throughout the brain. Expression is a	very third position.,Function:Por ctivating A-type potassium char ent in neurons. Channel propert ts and with regulatory subunits arity:Belongs to the potassium cted in dendrites in cultured hip nhances cell surface expression or KCND3. Interacts with DPP6, ociates with the regulatory subu f a complex consisting of KCNIF complex contains four KCND2 and DPP10.,tissue specificity:H	re-forming (alpha) nnels. May contribute to ies are modulated by a.,PTM:Phosphorylated on channel family. D (Shal) opocampal neurons. n.,subunit:Homotetramer DLG4 and FREQ (By units KCNIP1, KCNIP2, P1, KCNIP2 isoform 3 and and four KCNIP2 ighly expressed

Validation Data



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).

Contact information

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Please scan the QR code to access additional product information: Kv4.2 (Phospho Ser616) Rabbit pAb

For Research Use Only. Not for Use in Diagnostic Procedures.

Antibody | ELISA Kits | Protein | Reagents