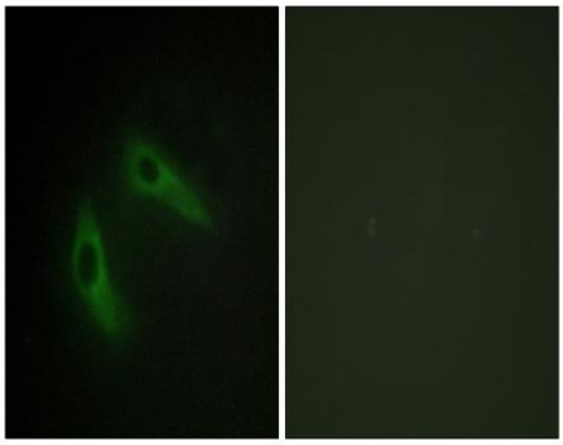
Best Tools for immunology Research

KChIP1 Polyclonal Antibody

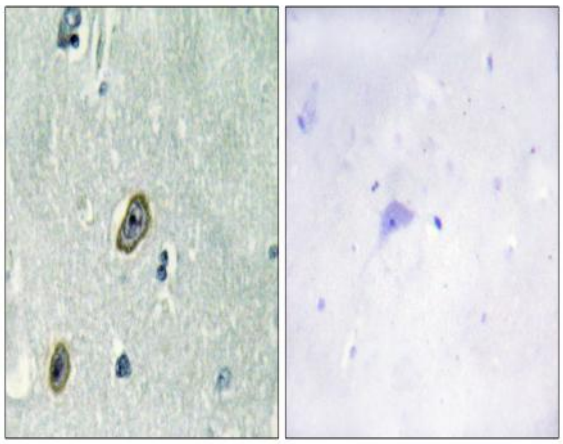
Catalog No :	YT2452
Reactivity :	Human;Mouse;Rat
Applications :	IHC;IF;ELISA
Target :	KChIP1
Gene Name :	KCNIP1
Protein Name :	Kv channel-interacting protein 1
Human Gene Id :	30820
Human Swiss Prot No :	Q9NZI2
Mouse Gene Id :	70357
Mouse Swiss Prot No :	Q9JJ57
Rat Gene Id :	65023
Rat Swiss Prot No :	Q8R426
Immunogen :	The antiserum was produced against synthesized peptide derived from human KCIP1. AA range:1-50
Specificity :	KChIP1 Polyclonal Antibody detects endogenous levels of KChIP1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	27kD
Background :	This gene encodes a member of the family of cytosolic voltage-gated potassium (Kv) channel-interacting proteins (KCNIPs), which belong to the neuronal calcium sensor (NCS) family of the calcium binding EF-hand proteins. They associate with Kv4 alpha subunits to form native Kv4 channel complexes. The encoded protein may regulate rapidly inactivating (A-type) currents, and hence neuronal membrane excitability, in response to changes in the concentration of intracellular calcium. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, May 2013],
Function :	function:Regulatory subunit of Kv4/D (Shal)-type voltage-gated rapidly inactivating A-type potassium channels. Probably modulates channels density, inactivation kinetics and rate of recovery from inactivation in a calcium-dependent and isoform-specific manner. In vitro, modulates KCND1/Kv4.1 and KCND2/Kv4.2 currents. Seems to be involved in KCND2 trafficking to the cell surface.,similarity:Belongs to the recoverin family.,similarity:Contains 4 EF-hand domains.,subunit:Component of heteromultimeric potassium channels. Interacts with KCND3 and the N-terminal domain of KCND2. Probably part of a complex consisting of KCNIP1, KCNIP2 isoform 3 and KCND2. Can self-associate to form homodimers and homotetramers. Interacts with KCNIP2 isoform 3 in a calcium-dependent manner. Interacts with Naja atra venom CTX3.,tissue specificity:Isoform 1 and isoform 2 are expressed in brain and kidney. Isoform
Subcellular Location :	Cell membrane ; Peripheral membrane protein . Cytoplasm . Cell projection, dendrite .
Expression :	Isoform 1 and isoform 2 are expressed in brain and kidney. Isoform 1 is also expressed in liver, pancreas, skeletal muscle, small intestine and testis. Isoform 2 is also expressed in lung, pancreas, leukocytes, prostate and thymus.
Sort :	8851
No4 :	1

Products Images



Immunofluorescence analysis of HeLa cells, using KCIP1 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using KCIP1 Antibody. The picture on the right is blocked with the synthesized peptide.