

KV4.1 Polyclonal Antibody

Catalog No :	YT2513
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	KV4.1
Gene Name :	KCND1
Protein Name :	Potassium voltage-gated channel subfamily D member 1
Human Gene Id :	3750
Human Swiss Prot No :	Q9NSA2
Mouse Gene Id :	16506
Mouse Swiss Prot No :	Q03719
Immunogen :	The antiserum was produced against synthesized peptide derived from human KCND1. AA range:558-607
Specificity :	KV4.1 Polyclonal Antibody detects endogenous levels of KV4.1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200
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)

Observed Band : 70kD

Background :

This gene encodes a multipass membrane protein that comprises the pore subunit of the voltage-gated A-type potassium channel, which functions in the repolarization of membrane action potentials. Activity of voltage-gated potassium channels is important in a number of physiological processes, among them the regulation of neurotransmitter release, heart rate, insulin secretion, and smooth muscle contraction. [provided by RefSeq, Aug 2013],

Function :

domain:The segment S4 is probably the voltage-sensor and is characterized by a series of positively charged amino acids at every third position.,function:Pore-forming (alpha) subunit of voltage-gated rapidly inactivating A-type potassium channels. May contribute to I(To) current in heart and I(Sa) current in neurons. Channel properties are modulated by interactions with other alpha subunits and with regulatory subunits.,similarity:Belongs to the potassium channel family. D (Shal) subfamily.,subunit:Homotetramer or heterotetramer with KCND2 and/or KCND3. Associates with the regulatory subunits KCNIP1, KCNIP2, KCNIP3 and KCNIP4 (By similarity). Interacts with DPP10.,tissue specificity:Widely expressed. Highly expressed in brain, in particular in cerebellum and thalamus; detected at lower levels in the other parts of the brain.,

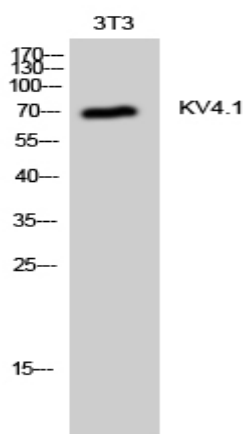
Subcellular Location :

Membrane; Multi-pass membrane protein. Cell projection, dendrite .

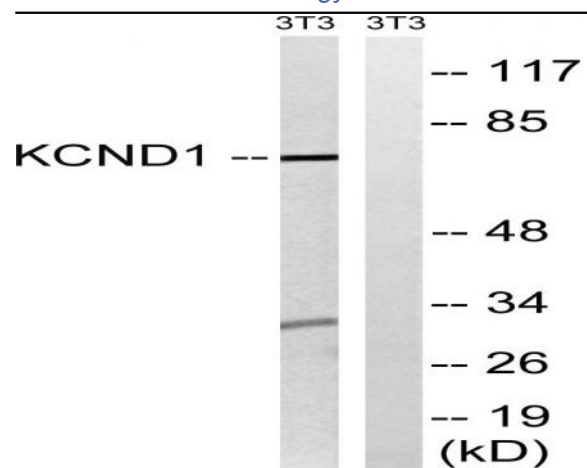
Expression :

Widely expressed. Highly expressed in brain, in particular in cerebellum and thalamus; detected at lower levels in the other parts of the brain.

Products Images



Western Blot analysis of 3T3 cells using KV4.1 Polyclonal Antibody



Western blot analysis of lysates from NIH/3T3 cells, using KCND1 Antibody. The lane on the right is blocked with the synthesized peptide.