

## KV4.1 Polyclonal Antibody

<b>Catalog No :</b>	YT2513
<b>Reactivity :</b>	Human;Mouse
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	KV4.1
<b>Gene Name :</b>	KCND1
<b>Protein Name :</b>	Potassium voltage-gated channel subfamily D member 1
<b>Human Gene Id :</b>	3750
<b>Human Swiss Prot No :</b>	Q9NSA2
<b>Mouse Gene Id :</b>	16506
<b>Mouse Swiss Prot No :</b>	Q03719
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human KCND1. AA range:558-607
<b>Specificity :</b>	KV4.1 Polyclonal Antibody detects endogenous levels of KV4.1 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 70kD

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**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],

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**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.,

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**Subcellular Location :** Membrane; Multi-pass membrane protein. Cell projection, dendrite .

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

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**Sort :** 9067

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**No4 :** 1

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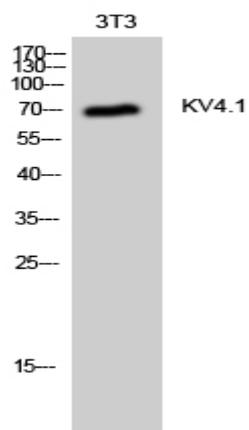
**Host :** Rabbit

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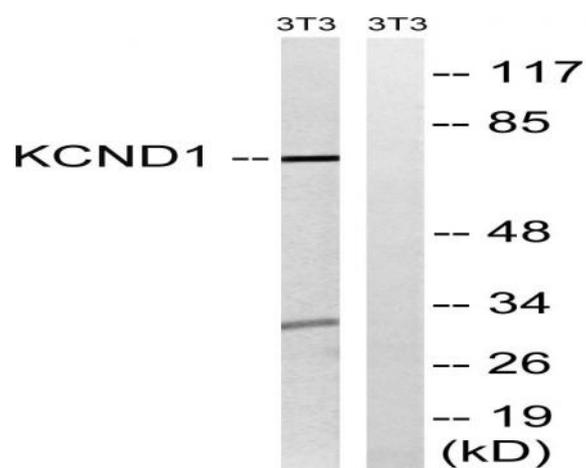
**Modifications :** Unmodified

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## 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.