



KV3.1 Polyclonal Antibody

Catalog No	BYab-16453
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	KCNC1
Protein Name	Potassium voltage-gated channel subfamily C member 1
Immunogen	Synthesized peptide derived from KV3.1 . at AA range: 190-270
Specificity	KV3.1 Polyclonal Antibody detects endogenous levels of KV3.1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/5000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	KCNC1; Potassium voltage-gated channel subfamily C member 1; NGK2; Voltage-gated potassium channel subunit Kv3.1; Voltage-gated potassium channel subunit Kv4
Observed Band	60kD
Cell Pathway	Cell membrane ; Multi-pass membrane protein . Cell projection, axon . Cell junction, synapse, presynaptic cell membrane . Localizes in parallel fiber membranes, distributed on the perisynaptic and extrasynaptic membranes away from the active zones. .
Tissue Specificity	PCR rescued clones,
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.,domain:The tail may be important in modulation of channel activity and/or targeting of the channel to specific subcellular compartments.,function:Mediates the voltage-dependent potassium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, the protein forms a potassium-selective channel through which potassium ions may

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	pass in accordance with their electrochemical gradient.,similarity:Belongs to the potassium channel family. C (Shaw) subfamily.,subunit:Heteromultimer with KCNG3, KCNG4 and KCNV2.,
Background	This gene encodes a member of a family of integral membrane proteins that mediate the voltage-dependent potassium ion permeability of excitable membranes. Alternative splicing is thought to result in two transcript variants encoding isoforms that differ at their C-termini. These isoforms have had conflicting names in the literature: the longer isoform has been called both "b" and "alpha", while the shorter isoform has been called both "a" and "beta" (PMIDs 1432046, 12091563). [provided by RefSeq, Oct 2014],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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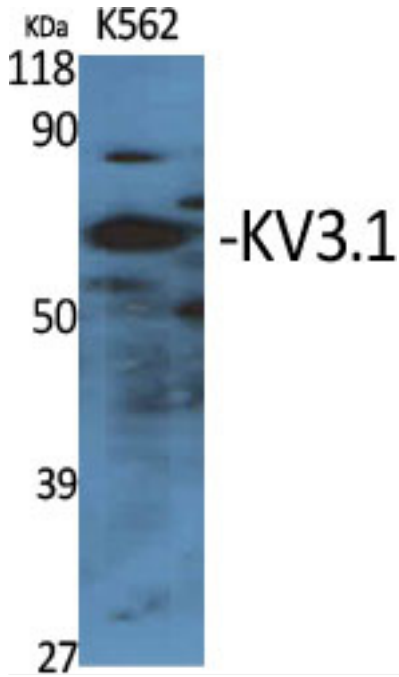
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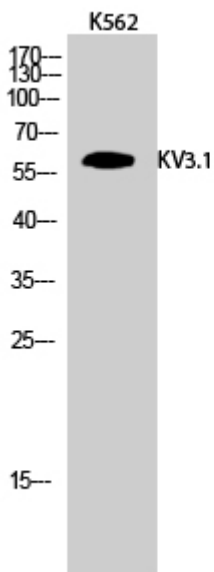
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Products Images



Western Blot analysis of various cells using KV3.1 Polyclonal Antibody



Western Blot analysis of K562 cells using KV3.1 Polyclonal Antibody

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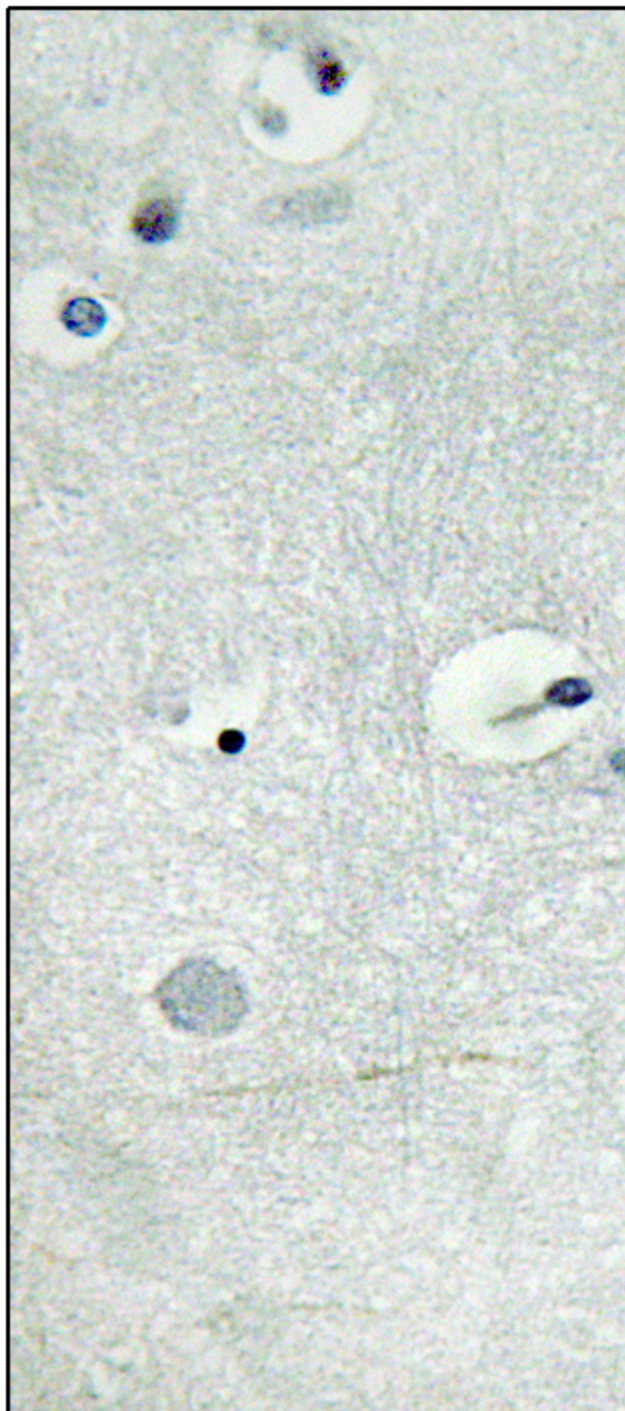


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Western blot analysis of KCNC1 Antibody. The lane on the right is blocked with the KCNC1 peptide.

KCNC1





Immunohistochemistry analysis of paraffin-embedded human brain, using KCNC1 Antibody. The lane on the right is blocked with the KCNC1 peptide.