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KCNT1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50772

Product Information

Application	WB, IHC
Primary Accession	Q5JUK3
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	polyclonal
Calculated MW	138343

Additional Information

Gene ID	57582
Other Names	Potassium channel subfamily T member 1, KCa41, KCNT1, KIAA1422
Dilution	WB~~ 1:1000 IHC~~1:50-100
Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.
Storage Conditions	-20℃

Protein Information

Name	KCNT1 (HGNC:18865)
Function	Sodium-activated K(+) channel (PubMed: 37494189). Acts as an important mediator of neuronal membrane excitability (PubMed:37494189). Contributes to the delayed outward currents (By similarity). Regulates neuronal bursting in sensory neurons (By similarity). Contributes to synaptic development and plasticity (By similarity).
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:Q9Z258}; Multi-pass membrane protein
Tissue Location	Highest expression in liver, brain and spinal cord. Lowest expression in skeletal muscle.

Background

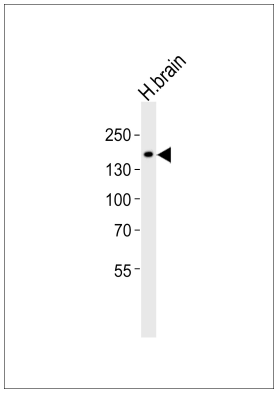
Outwardly rectifying potassium channel subunit that may coassemble with other Slo-type channel subunits. Activated by high intracellular sodium or chloride levels. Activated upon stimulation of G-protein

coupled receptors, such as CHRM1 and GRIA1. May be regulated by calcium in the absence of sodium ions (in vitro) (By similarity).

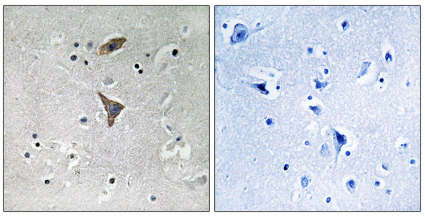
References

Humphray S.J.,et al.Nature 429:369-374(2004).
Nagase T.,et al.DNA Res. 7:65-73(2000).
Heron S.E.,et al.Nat. Genet. 44:1188-1190(2012).
Barcia G.,et al.Nat. Genet. 44:1255-1259(2012).

Images



Western blot analysis of lysate from human brain tissue lysate,using KCNT1 Antibody(AP50772). AP50772 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysate at 35ug.



Immunohistochemistry analysis of paraffin-embedded human brain tissue using KCNT1 antibody.