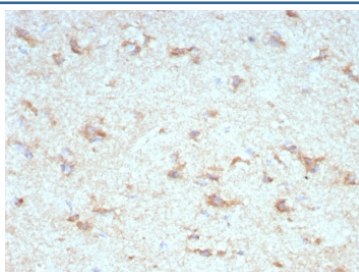


KChIP2 Antibody / KCNIP2 [clone KCNIP2/7589] (V4121)

Catalog No.	Formulation	Size
V4121-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4121-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4121SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	KCNIP2/7589
Purity	Protein A/G affinity
UniProt	Q9NS61
Localization	Cell membrane
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
Limitations	This KChIP2 antibody is available for research use only.



IHC staining of FFPE human cerebellum tissue with KChIP2 antibody (clone KCNIP2/7589). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

In the brain and heart, rapidly inactivating (A-type) voltage-gated potassium (Kv) currents control the excitability of neurons and cardiac myocytes. KChIPs are Kv channel-interacting proteins that bind to the cytoplasmic amino termini of Kv4Alpha-subunits and are integral components of native Kv4 channel complexes. KChIP family members include KChIP1 expressed in brain, KChIP2 expressed in heart, brain, and lung, and KChIP3 (previously identified as calsenilin)

expressed in brain and testis. In rat brain, KChIP1 colocalizes with Kv4.3 in granule cells and KChIP2 colocalizes with Kv4.2 in both neocortical and subcortical structures. The KChIPs are members of the recoverin/neuronal calcium sensor-1 subfamily of calcium-binding proteins and show 99% nucleotide homology to DREAM, suggesting that KChIPs may have activity beyond modulation of Kv4 channels.

Application Notes

Optimal dilution of the KChIP2 antibody should be determined by the researcher.

Immunogen

A recombinant partial protein (within amino acids 1-270) from the human protein was used as the immunogen for the KChIP2 antibody.

Storage

Aliquot the KChIP2 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.