10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-KCNC1 / Kv3.1 Antibody (Internal)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18413

Product Information

Application	WB, IHC-P
Primary Accession	P48547
Predicted	Human, Mouse, Rat, Rabbit, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57942
Concentration (mg/ml)	1 mg/ml

Additional Information

Gene ID	3746
Alias Symbol	KCNC1
Other Names	KCNC1, KShIIIB, KV3.1, Raw2, Shaw22, KV4, NGK2
Target/Specificity	Recognizes endogenous levels of Kv3.1 protein.
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-KCNC1 / Kv3.1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KCNC1 {ECO:0000303|PubMed:8449507, ECO:0000312|HGNC:HGNC:6233}
Function	Voltage-gated potassium channel that opens in response to the voltage difference across the membrane and through which potassium ions pass in accordance with their electrochemical gradient (PubMed:25401298, PubMed:35840580). The mechanism is time-dependent and inactivation is slow (By similarity). Plays an important role in the rapid repolarization of fast-firing brain neurons (By similarity). Can form functional homotetrameric channels and heterotetrameric channels that contain variable proportions of KCNC2, and possibly other family members as well (By similarity). Contributes to fire sustained trains of very brief action potentials at high frequency in pallidal neurons (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein. Cell projection, axon {ECO:0000250|UniProtKB:P25122}. Presynaptic cell membrane {ECO:0000250|UniProtKB:P25122}. Note=Localizes in parallel fiber membranes, distributed on the perisynaptic and extrasynaptic membranes

away from the active zones. {ECO:0000250|UniProtKB:P25122}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.