



Anti-KCNH1 (Potassium voltage-gated channel subfamily H member 1) Polyclonal Antibody

Category: Polyclonal Antibody

Catalog#: AB1J041

Antigen Synonym: EAG (Voltage-gated potassium channel subunit Kv10.1),
EAG1 (Ether-a-go-go potassium channel 1)

Species Reactivity: Human, Mouse

Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to C-terminal residues of human KCNH1(Potassium voltage-gated channel subfamily H member 1)

Description: KCNH1 (Potassium voltage-gated channel subfamily H member 1)

Is a pore-forming (alpha) subunit of voltage-gated non-inactivating delayed rectifier potassium channel. Channel properties may be modulated by cAMP and subunit assembly. KCNH1 mediates IK(NI) current in myoblasts. The potassium channel is probably composed of a homo- or heterotetrameric complex of pore-forming alpha subunits that can associate with modulating beta subunits. Heteromultimer with KCNH5/EAG2. KCNH1 interacts with ALG10B. KCNH1 is highly expressed in brain and in myoblasts at the onset of fusion, but not in other tissues. Detected in HeLa (cervical carcinoma), SH-SY5Y (neuroblastoma) and MCF-7 (epithelial tumor) cells, but not in normal epithelial cells. Overexpression of EAG may confer a growth advantage to cancer cells and favor tumor cell proliferation.

Reference:

Occhiodoro,T., et al, FEBS Lett. 434 (1-2), 177-182 (1998)
Pardo,L.A., et al, EMBO J. 18 (20), 5540-5547 (1999)
Schonherr,R., et al, EMBO J. 19 (13), 3263-3271 (2000)
Schonherr,R., et al, FEBS Lett. 514 (2-3), 204-208 (2002)

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