

**KCNH1 rabbit pAb****Cat#: orb765544 (Manual)**

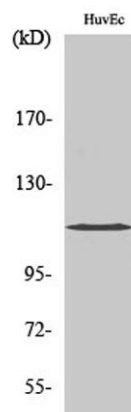
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<b>Product Name</b>	KCNH1 rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;ELISA;IHC
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	WB 1:500-2000;IHC-p 1:50-300; ELISA 2000-20000
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human KCNH1. AA range:720-769
<b>Specificity</b>	KCNH1 Polyclonal Antibody detects endogenous levels of KCNH1 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Potassium voltage-gated channel subfamily H member 1
<b>Gene Name</b>	KCNH1
<b>Cellular localization</b>	Cell membrane ; Multi-pass membrane protein . Nucleus inner membrane ; Multi-pass membrane protein . Cell projection, dendrite . Cell projection, axon . Cell junction, synapse, presynaptic cell membrane . Perikaryon . Cell junction, synapse, postsynaptic density membrane . Early endosome membrane . Perinuclear KCNH1 is located to NPC-free islands.
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

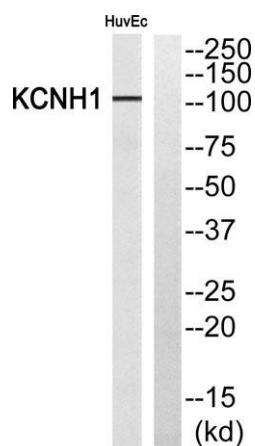
<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	110kD
<b>Human Gene ID</b>	3756
<b>Human Swiss-Prot Number</b>	O95259
<b>Alternative Names</b>	KCNH1; EAG; EAG1; Potassium voltage-gated channel subfamily H member 1; Ether-a-go-go potassium channel 1; EAG channel 1; h-eag; hEAG1; Voltage-gated potassium channel subunit Kv10.1

### Background

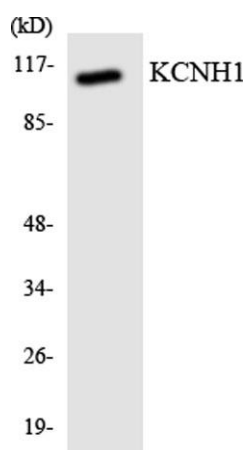
Voltage-gated potassium (Kv) channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. This gene encodes a member of the potassium channel, voltage-gated, subfamily H. This member is a pore-forming (alpha) subunit of a voltage-gated non-inactivating delayed rectifier potassium channel. It is activated at the onset of myoblast differentiation. The gene is highly expressed in brain and in myoblasts. Overexpression of the gene may confer a growth advantage to cancer cells and favor tumor cell proliferation. Alternative splicing of this gene results in two transcript variants encoding distinct isoforms. [provided]



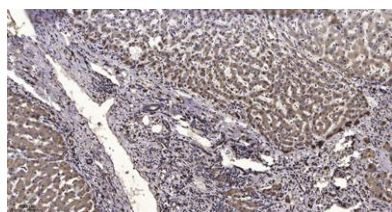
**Western Blot analysis of various cells using KCNH1 Polyclonal Antibody diluted at 1:2000**



Western blot analysis of KCNH1 Antibody. The lane on the right is blocked with the KCNH1 peptide.



Western blot analysis of the lysates from COLO205 cells using KCNH1 antibody.



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).