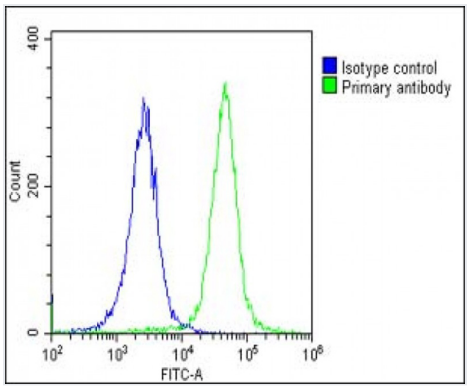
KCNH1 Antibody – Rabbit Polyclonal

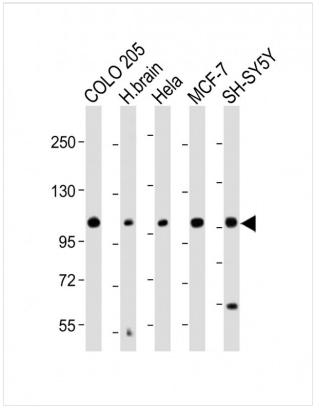
PRODUCT OVERVIEW

Product Name	KCNH1, Polyclonal Antibody
Full Product Name	KCNH1 Antibody (C-Term)
Product Gene Name	anti-KCNH1 antibody
Product Synonym Names	Purified Rabbit Polyclonal Antibody (Pab); 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; KCNH1; EAG; EAG1
Clonality	Polyclonal
Isotype	Ig
Host	Rabbit
Species Reactivity	Human Predicted: Human
Form/Format	Supplied in PBS with 0.09% (W/V) sodium azide.
Purity/Purification	Purified through a protein A column, followed by peptide affinity purification.
Specificity	This KCNH1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 787-820 amino acids from the human region of human KCNH1.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	111423
OMIM	AJ001366 mRNA
3D Structure	ModBase 3D Structure for O95259
Antigen Type	Synthesized Peptide
Antigen Source	Human
Tissue Location	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
Cellular Location	Cell membrane; Multi-pass membrane protein. Nucleus inner membrane; Multi-pass membrane protein. Cell projection, dendrite {ECO:0000250|UniProtKB:Q63472}. Cell projection, axon {ECO:0000250|UniProtKB:Q63472}. Cell junction, synapse, presynaptic cell membrane {ECO:0000250|UniProtKB:Q63472} Perikaryon {ECO:0000250|UniProtKB:Q63472}. Cell junction, synapse, postsynaptic cell membrane, postsynaptic density {ECO:0000250|UniProtKB:Q63472}. Early endosome membrane. Note=Perinuclear KCNH1 is located to NPC-free islands
Product Categories/Family for anti-KCNH1 antibody	Primary Antibodies; Neuroscience
Applications Tested/Suitable for anti-KCNH1 antibody	Flow Cytometry (FC/FACS), Western Blot (WB), ELISA (EIA)
Application Notes for anti-KCNH1 antibody	FC/FACS: 1:25 WB: 1:2000

Related Product Information for anti-KCNH1 antibody	Pore-forming (alpha) subunit of a voltage-gated delayed rectifier potassium channel (PubMed:9738473, PubMed:11943152, PubMed:10880439, PubMed:22732247, PubMed:25556795, PubMed:27325704, PubMed:27005320, PubMed:27618660). Channel properties are modulated by subunit assembly (PubMed:11943152). Mediates IK(NI) current in myoblasts (PubMed:9738473). Involved in the regulation of cell proliferation and differentiation, in particular adipogenic and osteogenic differentiation in bone marrow-derived mesenchymal stem cells (MSCs) (PubMed:23881642).
Product References and Citations for anti-KCNH1 antibody	Occhiodoro T.,et al.FEBS Lett. 434:177-182(1998). Pardo L.A.,et al.EMBO J. 18:5540-5547(1999). Gregory S.G.,et al.Nature 441:315-321(2006). Mural R.J.,et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases. Schoenherr R.,et al.EMBO J. 19:3263-3271(2000).
Other Notes	Small volumes of anti-KCNH1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for KCNH1 purchase	MBS9231291 is an antibody targeting KCNH1. Also known as KCNH1 Antibody (C-Term). Reactive in Human Predicted: Human. Host: Rabbit.



Flow Cytometry (FC/FACS) of anti-KCNH1 antibody
Overlay histogram showing Hela cells stained with AP22343b(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP22343b, 1:25 dilution) for 60 min at 37 degree C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight 488 Conjugated Highly Cross-Adsorbed(OE188374) at 1/200 dilution for 40 min at 37 degree C. Isotype control antibody (blue line) was rabbit IgG1 (1mug/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.



Western Blot (WB) of anti-KCNH1 antibody
All lanes : Anti-KCNH1 Antibody (C-Term) at 1:2000 dilutionLane 1: COLO 205 whole cell lysateLane 2: Human brain lysateLane 3: Hela whole cell lysateLane 4: MCF-7 whole cell lysateLane 5: SH-SY5Y whole cell lysateLysates/proteins at 20 ug per lane. SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 111 kDaBlocking/Dilution buffer: 5% NFDM/TBST.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KCNH1. It may not necessarily be applicable to this product.

NCBI GI #	4504831
NCBI GeneID	3756
NCBI Accession #	NP_002229.1
UniProt Primary Accession #	O95259
UniProt Secondary Accession #	O76035; Q14CL3; B1AQ26
UniProt Related Accession #	O95259
GenBank Nucleotide #	NM_002238.3
NCBI Official Full Name	potassium voltage-gated channel subfamily H member 1 isoform 2
NCBI Official Synonym Full Names	potassium voltage-gated channel subfamily H member 1
NCBI Official Symbol	KCNH1
NCBI Official Synonym Symbols	EAG; EAG1; ZLS1; TMBTS; h-eag; hEAG1; Kv10.1

UniProt Protein Name	Potassium voltage-gated channel subfamily H member 1
UniProt Synonym Protein Names	Ether-a-go-go potassium channel 1
Protein Family	Potassium voltage-gated channel subfamily
UniProt Gene Name	KCNH1
UniProt Synonym Gene Names	; h-eag; hEAG1
NCBI Protein Information	potassium voltage-gated channel subfamily H member 1
NCBI Summary for KCNH1	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 by RefSeq, Jul 2008]
Research Articles on KCNH1	**1.** in this report, we present two independent screening campaigns in which we wanted to identify small molecules that bind to either the intracellular cytoplasmic amino terminal Per-Arnt-Sim (PAS) domain from the human EAG-related gene (ERG) channel or the amino or carboxy terminal globular domains from the mouse EAG1 channel, affecting their interaction.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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