

KCNH1 Antibody (C-Term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22343b**Specification**

KCNH1 Antibody (C-Term) - Product Information

Application	IF, WB, FC,E
Primary Accession	O95259
Reactivity	Human
Predicted	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	111423

KCNH1 Antibody (C-Term) - Additional Information**Gene ID** 3756**Other Names**

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

Target/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.

Dilution

IF~~1:25

WB~~1:2000

FC~~1:25

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

KCNH1 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

KCNH1 Antibody (C-Term) - Protein Information**Name** KCNH1

Function 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](#)).

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}. Presynaptic cell membrane {ECO:0000250|UniProtKB:Q63472}. Perikaryon {ECO:0000250|UniProtKB:Q63472}. Postsynaptic density membrane {ECO:0000250|UniProtKB:Q63472}. Early endosome membrane. Note=Perinuclear KCNH1 is located to NPC-free islands

Tissue Location

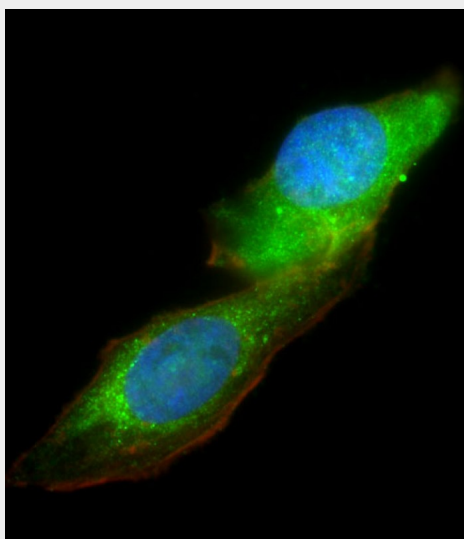
Highly expressed in brain and in myoblasts at the onset of fusion, but not in other tissues. Detected in HeLa (cervical carcinoma), SH-SY5Y (neuroblastoma) and MCF-7 (epithelial tumor) cells, but not in normal epithelial cells

KCNH1 Antibody (C-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

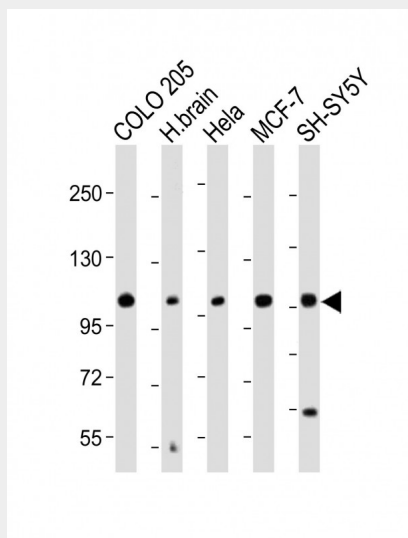
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KCNH1 Antibody (C-Term) - Images

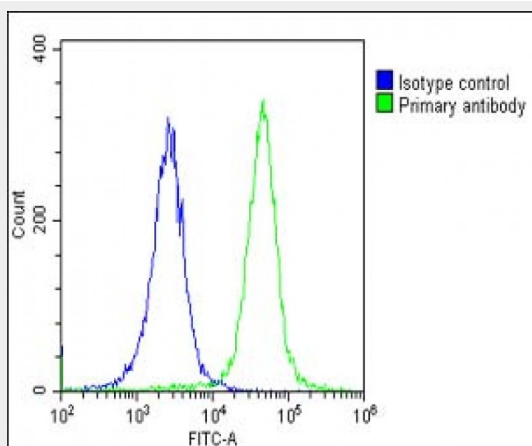


Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized

Hela cells labeling KCNH1 with AP22343b at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-Rabbit IgG secondary antibody at 1/200 dilution (green). Immunofluorescence image showing Nucleus and Cytoplasm staining on Hela cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin(red). The nuclear counter stain is DAPI (blue).



All lanes : Anti-KCNH1 Antibody (C-Term) at 1:2000 dilution Lane 1: COLO 205 whole cell lysate Lane 2: Human brain lysate Lane 3: Hela whole cell lysate Lane 4: MCF-7 whole cell lysate Lane 5: SH-SY5Y whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 111 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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 incubated 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°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°C. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >10, 000 events was performed.

KCNH1 Antibody (C-Term) - Background

Pore-forming (alpha) subunit of voltage-gated non- inactivating delayed rectifier potassium channel. Channel properties may be modulated by cAMP and subunit assembly. Mediates IK(NI) current in myoblasts.

KCNH1 Antibody (C-Term) - References

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).