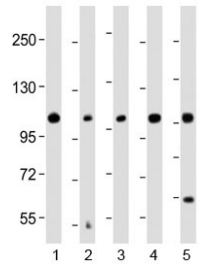
# KCNH1 Antibody / EAG1 (C-Terminal Region) (F54178)

| Catalog No. | Formulation | Size |
|---|---|---|
| F54178-0.2ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.2 ml |
| F54178-0.05ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.05 ml |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit Ig |
| **Purity** | Antigen affinity |
| **UniProt** | O95259 |
| **Applications** | Western Blot : 1:1000-1:2000 |
| **Limitations** | This KCNH1 antibody is available for research use only. |




Western blot testing of human 1) COLO 205, 2) brain, 3) HeLa, 4) MCF7 and 5) SH-SY5Y lysate with KCNH1 antibody at 1:2000. Predicted molecular weight ~111 kDa (may be observed larger than predicted due to glycosylation).

## Description

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. Potassium voltage-gated channel subfamily H member 1 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. [Wiki]

## Application Notes

The stated application concentrations are suggested starting points. Titration of the KCNH1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

A portion of amino acids 787-820 from human Potassium voltage-gated channel subfamily H member 1 protein was used as the immunogen for the KCNH1 antibody.

## Storage

Aliquot the KCNH1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.