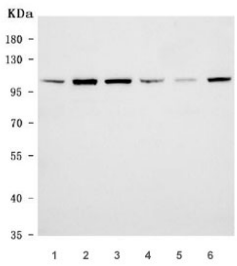
EAG1 Antibody / KCNH1 (RQ7297)

Catalog No.	Formulation	Size
RQ7297	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	O95259
Applications	Western blot: 0.5-1ug/ml
Limitations	This EAG1 antibody is available for research use only.



Western blot testing of 1) human U-87 MG, 2) human SH-SY5Y, 3) human HeLa, 4) human MCF7, 5) rat brain and 6) rat C6 cell lysate with EAG1 antibody. Predicted molecular weight ~111 kDa (may be observed larger than predicted due to glycosylation).

Description

Potassium voltage-gated channel subfamily H member 1, also called Ether-a-go-go potassium channel 1 (h-eag, EAG1) is a protein that in humans is encoded by the KCNH1 gene. 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.

Application Notes

Optimal dilution of the EAG1 antibody should be determined by the researcher.

Immunogen

Amino acids QDRSPILAEVKHSFYPC were used as the immunogen for the EAG1 antibody.

Storage

After reconstitution, the EAG1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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