

KCNH7 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9169a

Specification

KCNH7 Antibody (N-term) - Product Information

Application	FC, IHC-P, WB,E
Primary Accession	O9NS40
Other Accession	O54852 , O9ER47
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	135000
Antigen Region	52-78

KCNH7 Antibody (N-term) - Additional Information

Gene ID 90134

Other Names

Potassium voltage-gated channel subfamily H member 7, Ether-a-go-go-related gene potassium channel 3, ERG-3, Eag-related protein 3, Ether-a-go-go-related protein 3, hERG-3, Voltage-gated potassium channel subunit Kv113, KCNH7, ERG3

Target/Specificity

This KCNH7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 52-78 amino acids from the N-terminal region of human KCNH7.

Dilution

FC~~1:10~50

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

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

KCNH7 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

KCNH7 Antibody (N-term) - Protein Information

Name KCNH7 ([HGNC:18863](#))

Synonyms ERG3

Function Pore-forming (alpha) subunit of voltage-gated inwardly rectifying potassium channel (PubMed:[32723862](#)). Exhibits faster activation and deactivation kinetics and slow inactivation at membrane potentials positive to 240 mV, resulting in the weakest inward rectification (PubMed:[32723862](#)).

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:Q12809}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q12809}

Tissue Location

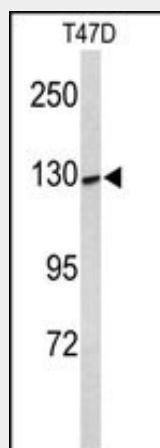
Expressed in prolactin-secreting adenomas.

KCNH7 Antibody (N-term) - Protocols

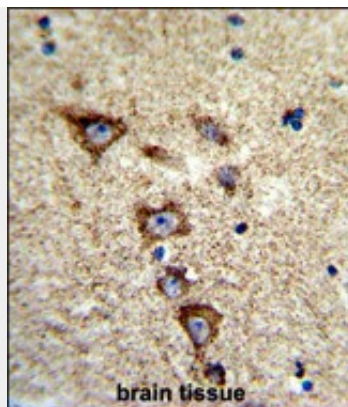
Provided below are standard protocols that you may find useful for product applications.

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

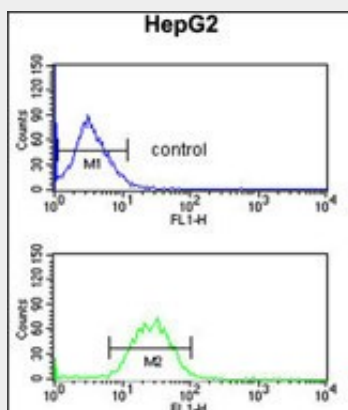
KCNH7 Antibody (N-term) - Images



Western blot analysis of KCNH7 Antibody (N-term) (Cat. #AP9169a) in T47D cell line lysates (35ug/lane). KCNH7 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human brain tissue reacted with KCNH7 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



KCNH7 Antibody (N-term) (Cat. #AP9169a) flow cytometric analysis of HepG2 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

KCNH7 Antibody (N-term) - Background

KCNH7 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 protein encodes a member of the potassium channel, voltage-gated, subfamily H.

KCNH7 Antibody (N-term) - References

Alkelai, A., et al., *Psychopharmacology* (Berl.) 206 (3), 491-499 (2009)
Couturier, N., et al., *Eur. J. Hum. Genet.* 17 (6), 844-847 (2009)