10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KCNH6 Rabbit pAb

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Catalog # AP56454

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9H252
Reactivity	Rat
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	106425
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human KCNH6
Epitope Specificity	401-500/994
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Multi-pass membrane protein.
SIMILARITY	Belongs to the potassium channel family. H (Eag) (TC 1.A.1.20) subfamily. Kv11.2/KCNH6 sub-subfamily. Contains 1 cyclic nucleotide-binding domain. Contains 1 PAC (PAS-associated C-terminal) domain. Contains 1 PAS (PER-ARNT-SIM) domain.
SUBUNIT	The potassium channel is probably composed of a homo- or heterotetrameric complex of pore-forming alpha subunits that can associate with modulating beta subunits. Heteromultimers with KCNH2/ERG1 and KCNH7/ERG3 (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Pore-forming (alpha) subunit of voltage-gated potassium channel. Elicits a slowly activating, rectifying current (By similarity). Channel properties may be modulated by cAMP and subunit assembly.

Additional Information

Gene ID	81033
Other Names	Voltage-gated inwardly rectifying potassium channel KCNH6, Ether-a-go-go-related gene potassium channel 2, ERG-2, Eag-related protein 2, Ether-a-go-go-related protein 2, hERG-2, hERG2 {ECO:0000303|Ref.1}, Potassium voltage-gated channel subfamily H member 6, Voltage-gated potassium channel subunit Kv11.2, KCNH6 (HGNC:18862), ERG2
Target/Specificity	Expressed in prolactin-secreting adenomas.
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

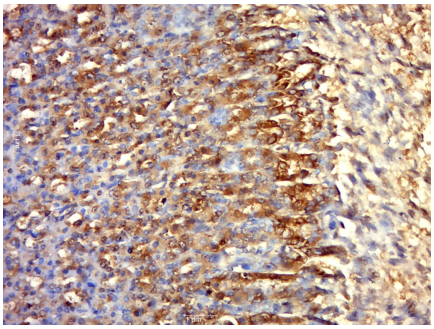
Protein Information

Name	KCNH6 (HGNC:18862)
Synonyms	ERG2
Function	Pore-forming (alpha) subunit of voltage-gated inwardly rectifying potassium channel. Characterized by unusual gating kinetics by producing relatively small outward currents during membrane depolarization and large inward currents during subsequent repolarization which reflect a rapid inactivation during depolarization and quick recovery from inactivation but slow deactivation (closing) during repolarization. Activates even more slowly than KCNH2.
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:Q12809}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q12809}
Tissue Location	Expressed in prolactin-secreting adenomas.

Background

Pore-forming (alpha) subunit of voltage-gated potassium channel. Elicits a slowly activating, rectifying current (By similarity). Channel properties may be modulated by cAMP and subunit assembly.

Images



Paraformaldehyde-fixed, paraffin embedded (rat stomach); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (KCNH6) Polyclonal Antibody, Unconjugated (AP56454) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.