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KCNH2 / HERG Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS11124

Specification

KCNH2 / HERG Antibody (Internal) - Product Information

Application	**IHC**
Primary Accession	Q12809
Reactivity	**Human, Mouse, Rabbit, Hamster, Monkey, Pig, Horse, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**127kDa KDa**

KCNH2 / HERG Antibody (Internal) - Additional Information

Gene ID 3757

Other Names
Potassium voltage-gated channel subfamily H member 2, Eag homolog, Ether-a-go-go-related gene potassium channel 1, ERG-1, Eag-related protein 1, Ether-a-go-go-related protein 1, H-ERG, hERG-1, hERG1, Voltage-gated potassium channel subunit Kv11.1, KCNH2, ERG, ERG1, HERG

Target/Specificity
Human KCNH2 / Kv11.1. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage
Long term: -70°C; Short term: +4°C

Precautions
KCNH2 / HERG Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

KCNH2 / HERG Antibody (Internal) - Protein Information

Name KCNH2

Synonyms ERG, ERG1, HERG

Function
Pore-forming (alpha) subunit of voltage-gated inwardly rectifying potassium channel. Channel properties are modulated by cAMP and subunit assembly. Mediates the rapidly activating component of the delayed rectifying potassium current in heart (IKr) (PubMed:18559421, PubMed:26363003, PubMed:27916661).

Cellular Location
Cell membrane; Multi-pass membrane protein

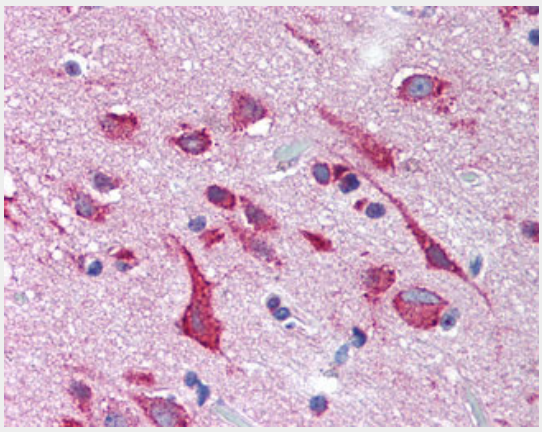
Tissue Location
Highly expressed in heart and brain. Isoforms USO are frequently overexpressed in cancer cells

KCNH2 / HERG Antibody (Internal) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KCNH2 / HERG Antibody (Internal) - Images



Anti-KCNH2 / Kv11.1 antibody ALS11124 IHC of human brain, cortex.

KCNH2 / HERG Antibody (Internal) - Background

Pore-forming (alpha) subunit of voltage-gated inwardly rectifying potassium channel. Channel properties are modulated by cAMP and subunit assembly. Mediates the rapidly activating component of the delayed rectifying potassium current in heart (IKr). Isoforms USO have no channel activity by themself, but modulates channel characteristics by forming heterotetramers with other isoforms which are retained intracellularly and undergo ubiquitin-dependent degradation.

KCNH2 / HERG Antibody (Internal) - References

Warmke J.W.,et al.Proc. Natl. Acad. Sci. U.S.A. 91:3438-3442(1994).
Itoh T.,et al.Hum. Genet. 102:435-439(1998).
Soejima H.,et al.Genomics 74:115-120(2001).
Downie D.,et al.Submitted (MAR-2001) to the EMBL/GenBank/DDBJ databases.
Crociani O.,et al.J. Biol. Chem. 278:2947-2955(2003).