

KCNA7 Rabbit pAb

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Catalog # AP94365

Product Information

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|--------------------------------|--|
| Application | WB, IHC-P, IHC-F, IF |
| Primary Accession | Q96RP8 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 50559 |
| Physical State | Liquid |
| Immunogen | KLH conjugated synthetic peptide derived from human KCNA7 |
| Epitope Specificity | 251-350/456 |
| 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. A (Shaker) (TC 1.A.1.2) subfamily. Kv1.7/KCNA7 sub-subfamily. |
| SUBUNIT | Heterotetramer of potassium channel proteins. |
| Important Note | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| Background Descriptions | Potassium 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. Four sequence-related potassium channel genes - shaker, shaw, shab, and shal - have been identified in Drosophila, and each has been shown to have human homolog(s). This gene encodes a member of the potassium channel, voltage-gated, shaker-related subfamily. This member contains six membrane-spanning domains with a shaker-type repeat in the fourth segment. The gene is expressed preferentially in skeletal muscle, heart and kidney. It is a candidate gene for inherited cardiac disorders. [provided by RefSeq, Jul 2008] |

Additional Information

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|---------------------------|--|
| Gene ID | 3743 |
| Other Names | Potassium voltage-gated channel subfamily A member 7, Voltage-gated potassium channel subunit Kv1.7, KCNA7 |
| Target/Specificity | Highly expressed in skeletal muscle, heart and kidney. |
| Dilution | WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 |

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|----------------|---|
| Format | 0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce |
| 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. |

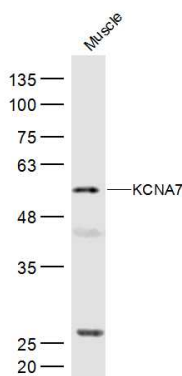
Protein Information

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|--------------------------|---|
| Name | KCNA7 |
| Function | Mediates the voltage-dependent potassium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, the protein forms a potassium-selective channel through which potassium ions may pass in accordance with their electrochemical gradient (By similarity). |
| Cellular Location | Membrane {ECO:0000250 UniProtKB:Q17ST2}; Multi- pass membrane protein |
| Tissue Location | Highly expressed in skeletal muscle, heart and kidney. |

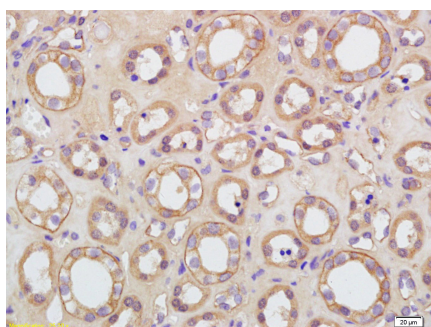
Background

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Images

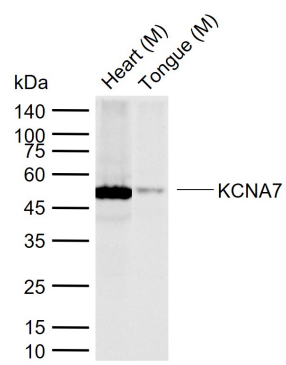


Sample: Muscle (Mouse) Lysate at 40 ug Primary: Anti-KCNA7 (AP94365) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 50 kD Observed band size: 55 kD



Tissue/cell: human kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-KCNA7 Polyclonal Antibody, Unconjugated(AP94365) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

Sample: Lane 1: Mouse Heart tissue lysates Lane 2: Mouse Tongue tissue lysates Primary: Anti-KCNA7 (AP94365) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 50 kDa Observed band size: 51 kDa



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.