

## Anti-KCNA7 Polyclonal Antibody

### Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse (predicted: Rat, Chicken, Dog, Pig, Rabbit)
Molecular Weight:	Theoretical: 50 kDa. Actual: 50 kDa.
Purification:	Protein A purified

### Applications

Verified Activity:	1. Sample: Muscle (Mouse) Lysate at 40 µg Primary: Anti-KCNA7 (TMAB-07923) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 50 kD Observed band size: 55 kD
	2. Tissue/cell: human kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-KCNA7 Polyclonal Antibody, Unconjugated (TMAB-07923) 1: 200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining
	3. Sample: Lane 1: Mouse Heart tissue lysates Lane 2: Mouse Tongue tissue lysates Primary: Anti-KCNA7 (TMAB-07923) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 50 kDa Observed band size: 51 kDa
Application:	WB, IHC-P, IHC-Fr, IF
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human KCNA7  
Antigen Species: Human  
Gene ID: 3743  
Uniprot ID: Q96RP8

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### Research Background

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]

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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