

## Anti-Mitofilin Polyclonal Antibody

### Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Dog,Cow)
Molecular Weight:	Theoretical: 84 kDa. Actual: 68 kDa.
Purification:	Protein A purified

### Applications

Verified Activity:	<p>1. Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Mitofilin) Polyclonal Antibody, Unconjugated (TMAB-08834) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.</p> <p>2. Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Mitofilin) Polyclonal Antibody, Unconjugated (TMAB-08834) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.</p> <p>3. Human HepG2 cells fixed with 3.7% Formaldehyde in medium, blocking performed with 10% NGS in 1x PBS buffer+0.1% Tween20. Incubated with Anti-Mitofilin/IMMT Polyclonal Antibody (TMAB-08834) at a 1:10 dilution for 1 hr at RT, followed by Anti-Rabbit secondary, Cy3 conjugate at a 1:300 dilution incubated at RT for 1 hr. This image was kindly provided by an end-user.</p> <p>4. Human HepG2 cells fixed with 3.7% Formaldehyde in medium, blocking performed with 10% NGS in 1x PBS buffer+0.1% Tween20. Incubated with Anti-Mitofilin/IMMT Polyclonal Antibody (TMAB-08834) at a 1:10 dilution for 1 hr at RT, followed by Anti-Rabbit secondary, Cy3 conjugate at a 1:300 dilution incubated at RT for 1 hr. This image was kindly provided by an end-user.</p> <p>5. Sample: A673 (Human) Cell Lysate at 30 µg Primary: Anti-Mitofilin (TMAB-08834) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 68 kD Observed band size: 68 kD</p>
Application:	WB,IHC-P,IHC-Fr,ICC/IF,IF
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; ICC/IF: 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.

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### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human Mitofilin

Antigen Species: Human

Gene ID: 10989

Uniprot ID: Q16891

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### Research Background

Mitochondria are the center of cellular energy production and essential metabolic reactions. As double membrane-bound organelles, mitochondria from different species, tissues, and metabolic states are highly polymorphic in nature, yet exhibit common structural features. The ultrastructural variations in mitochondrial architecture occur mainly due to the differences in the amount and shape of cristae. Abundant cristae are found in mitochondria from tissues where energy demand is high. Analysis of the human heart mitochondrial proteome shows that mitofilin is one of the most abundant mitochondrial proteins. It appears to play an important role in the maintenance of cristae morphology. Mitofilin was originally described as heart muscle protein (HMP) because of its high expression in the heart.

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