Data Sheet (Cat.No.TMAB-13654)

TargetMol

Anti-TNNI3K Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Rat (predicted:Mouse,Chicken,Cow,Horse,Rabbit,Sheep)
Molecular Weight:	Theoretical: 93 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); 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 (TNNI3 k) Polyclonal Antibody, Unconjugated (TMAB-13654) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining. 2. Paraformaldehyde-fixed, paraffin embedded (rat brain); 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 (TNNI3 k) Polyclonal Antibody, Unconjugated (TMAB-13654) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining. 3. Paraformaldehyde-fixed, paraffin embedded (human liver carcinoma); 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 (TNNI3 k) Polyclonal Antibody, Unconjugated (TMAB-13654) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
Application:	IHC-P,IHC-Fr,IF
Recommended	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 TNNI3K
Antigen Species:	Human
Gene ID:	51086
Uniprot ID:	Q59H18

Research Background

TNNI3K, also known as CARK, is a 936 amino acid serine/threonine-protein kinase that is highly expressed in heart. Overexpression of TNNI3K leads to improved cardiac function by enhancing beating frequency and increasing

contractile force and epinephrine response. TNNI3K suppresses phosphorylation of cardiac troponin I and p38/JNK-mediated apoptosis, therefore protecting the myocardium from ischemic injury. Administration of TNNI3K to mice with myocardial infarction improves cardiac performance and attentuates ventricular remodeling, suggesting that TNNI3K could be a promising target in the treatment of cardiac diseases. There are four isoforms of TNNI3K that are produced as a result of alternative splicing events.