Immunotag™ MYLK2 Polyclonal Antibody

Antibody Specification

Catalog No.	ITN0267
Product Description	Immunotag™ MYLK2 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	MYLK2
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Synthesized peptide derived from human protein, at AA range: 370-450
Specificity	MYLK2 Polyclonal Antibody detects endogenous levels of protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Gene Name	MYLK2
Accession No.	Q9H1R3 Q8VCR8 P20689
Description	myosin light chain kinase 2(MYLK2) Homo sapiens This gene encodes a myosin light chain kinase, a calcium/calmodulin dependent enzyme, that is exclusively expressed in adult skeletal muscle. [provided by RefSeq, Jul 2008],
Cell Pathway/ Category	Calcium,Vascular smooth muscle contraction,Focal adhesion,Regulates Actin and Cytoskeleton,

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Protein Expression	Muscle,Skeletal muscle,
Subcellular Localization	nucleus,cytoplasm,sarcomere,
Protein Function	catalytic activity:ATP + [myosin light-chain] = ADP + [myosin light-chain] phosphate.,disease:Defects in MYLK2 are a cause of cardiomyopathy familial hypertrophic (CMH) [MIM:192600]; also designated FHC or HCM. Familial hypertrophic cardiomyopathy is a hereditary heart disorder characterized by ventricular hypertrophy, which is usually asymmetric and often involves the interventricular septum. The symptoms include dyspnea, syncope, collapse, palpitations, and chest pain. They can be readily provoked by exercise. The disorder has inter- and intrafamilial variability ranging from benign to malignant forms with high risk of cardiac failure and sudden cardiac death.,function:Implicated in the level of global muscle contraction and cardiac function. Phosphorylates a specific serine in the N-terminus of a myosin light chain.,similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family.,similarity:Contains 1 protein kinase domain.,subcellular location:Colocalizes with phosphorylated myosin light chain (RLCP) at filaments of the myofibrils.,tissue specificity:Heart and skeletal muscles. Increased expression in the apical tissue compared to the interventricular septal tissue.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.