

Immunotag™ MYLK2 Polyclonal Antibody

| Antibody Specification | |
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| 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, |

Antibody Specification

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|--------------------------|---|
| Protein Expression | Muscle,Skeletal muscle, |
| Subcellular Localization | nucleus,cytoplasm,sarcomere, |
| Protein Function | <p>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.,</p> |
| Usage | For Research Use Only! Not for diagnostic or therapeutic procedures. |