

# Immunotag™ SIK1 Polyclonal Antibody

| Antibody Specification |  |
|------------------------|--|
| Catalog No.            | ITN0012  |
| Product Description    | Immunotag™ SIK1 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         | SIK1   |
| 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: 130-210   |
| Specificity            | SIK1 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              | SIK1 SIK SNF1LK  |
| Accession No.          | P57059 Q60670 Q9R1U5   |

## Antibody Specification

|                          |  |
|--------------------------|--|
| Description              | <p>catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,enzyme regulation:Activated by phosphorylation on Thr-182 by STK11 in complex with STE20-related adapter-alpha (STRAD alpha) pseudo kinase and CAB39.,function:Transient role during the earliest stages of myocardial cell differentiation and/or primitive chamber formation and may also be important for the earliest stages of skeletal muscle growth and/or differentiation. Potential role in G2/M cell cycle regulation. Inhibits CREB activity by phosphorylating and repressing the CREB-specific coactivators, CRTC1-3.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. AMPK subfamily.,similarity:Contains 1 protein kinase domain.,similarity:Contains 1 UBA domain.,subcellular location:Translocates to the cytoplasm on phosphorylation where it binds binding to YWHAZ.,subunit:Binds to and is activated by YWHAZ when phosphorylated on Thr-182.,</p> |
| Protein Expression       | Fetal lung,Spleen,Testis,  |
| Subcellular Localization | nucleus,cytoplasm,   |
| Protein Function         | <p>catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,enzyme regulation:Activated by phosphorylation on Thr-182 by STK11 in complex with STE20-related adapter-alpha (STRAD alpha) pseudo kinase and CAB39.,function:Transient role during the earliest stages of myocardial cell differentiation and/or primitive chamber formation and may also be important for the earliest stages of skeletal muscle growth and/or differentiation. Potential role in G2/M cell cycle regulation. Inhibits CREB activity by phosphorylating and repressing the CREB-specific coactivators, CRTC1-3.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. AMPK subfamily.,similarity:Contains 1 protein kinase domain.,similarity:Contains 1 UBA domain.,subcellular location:Translocates to the cytoplasm on phosphorylation where it binds binding to YWHAZ.,subunit:Binds to and is activated by YWHAZ when phosphorylated on Thr-182.,</p> |
| Usage                    | For Research Use Only! Not for diagnostic or therapeutic procedures.   |