



SIK1 Polyclonal Antibody

Catalog No	YP-Ab-14995
Isotype	IgG
Reactivity	Human;Rat
Applications	WB;IHC
Gene Name	SIK1
Immunogen	The antiserum was produced against synthesized peptide derived from human SIK. AA range:148-197
Specificity	SIK1 Polyclonal Antibody detects endogenous levels of SIK1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000;IHC-p 1:50-300
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Sik1;EC:2.7.11.1;HRT-20;Msk;Myocardial SNF1-like kinase;QIK/QSK;Serine/threonine-protein kinase SIK1;SIK;SNF1LK;Salt-inducible kinase 1;SIK-1;Serine/threonine-protein kinase SNF1-like kinase 1;Serine/threonine-protein kinase SNF1LK
Observed Band	85kD
Calculated Molecular Weight	85kD
Cell Pathway	Cytoplasm . Nucleus . Locates to cytoplasm when inactive following cAMP-induced phosphorylation, probably by PKA (PubMed:29211348).
Tissue Specificity	Fetal lung,Spleen,Testis,
Function	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 phosph

Background

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cytoplasm on phosphorylation where it binds binding to YWHAZ.,subunit:Binds
to and is activated by YWHAZ when phosphorylated on Thr-182.,

matters needing attention

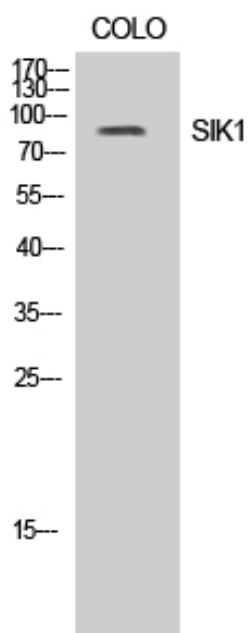
Avoid repeated freezing and thawing!

Usage suggestions

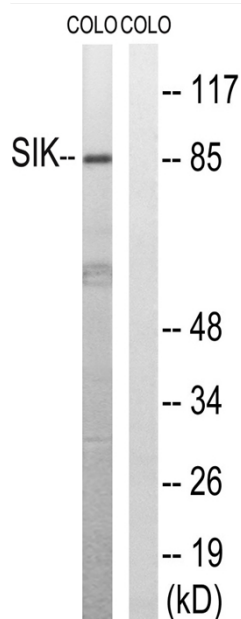
This product can be used in immunological reaction related experiments. For
more information, please consult technical personnel.



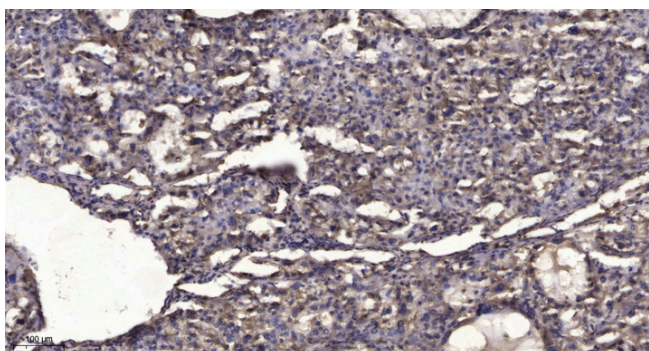
Products Images



Western Blot analysis of COLO cells using SIK1 Polyclonal Antibody



Western blot analysis of lysates from COLO205 cells, treated with PMA 125ng/ml 30', using SIK Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA, pH9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200(room temperature, 45min).