

Datasheet for ABIN783464
anti-SIK1 antibody (Center)



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1 Image

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Overview

Quantity:	0.1 mg
Target:	SIK1
Binding Specificity:	Center
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SIK1 antibody is un-conjugated
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	18 amino acid peptide near the center of human SIK1
Specificity:	This antibody detects SIK1 at Center. Two isoforms of SIK1 are known to exist, this antibody will detect both isoforms. SIK1 antibody is predicted to not cross-react with other SIK protein family members.
Cross-Reactivity (Details):	Species reactivity (tested):Human
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	SIK1
Alternative Name:	SIK1 (SIK1 Products)

Target Details

Background: Salt-inducible kinase 1 (SIK1), also known as SNF1LK or MSK, plays a role in histone modification and G2/M cell cycle regulation. It is a 783 amino acid protein that contains one UBA domain and belongs to the Ser/Thr protein kinase family (AMPK subfamily). Localized to both the nucleus and the cytoplasm, SIK1 is a class II HDAC kinase that uses magnesium as a cofactor to catalyze the ATP-dependent phosphorylation of target proteins and is thought to be important for the early stages of skeletal muscle growth and myocardial cell differentiation. Synonyms: SIK, SIK-1, SNF1LK, Salt-inducible protein kinase 1, Serine/threonine-protein kinase SIK1, Serine/threonine-protein kinase SNF1-like kinase 1

Gene ID: 150094

NCBI Accession: [NP_775490](#)

UniProt: [P57059](#)

Pathways: [Regulation of Muscle Cell Differentiation](#), [Skeletal Muscle Fiber Development](#), [Regulation of Carbohydrate Metabolic Process](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Buffer: PBS containing 0.02 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

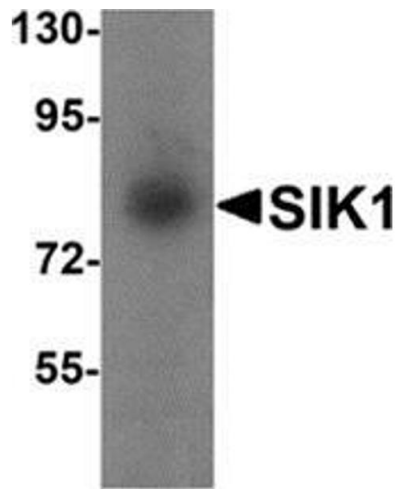
Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: Store at 2 - 8 °C for up to three months or (in aliquots) at -20 °C for longer.

Publications

Product cited in: Sherwood, Manbodh, Sheppard, Chalmers: "RASSF7 is a member of a new family of RAS association domain-containing proteins and is required for completing mitosis." in: **Molecular biology of the cell**, Vol. 19, Issue 4, pp. 1772-82, (2008) ([PubMed](#)).



Western Blotting

Image 1. Western blot analysis of SIK1 in human small intestine tissue lysate with SIK1 antibody at 1 µg/ml.