Datasheet for ABIN954807

anti-SIK1 antibody (AA 1-101)

2 Images

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Overview

Quantity:	50 µg
Target:	SIK1
Binding Specificity:	AA 1-101
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SIK1 antibody is un-conjugated
Application:	Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	SIK1 (AAH38504, 1 a.a. ~ 101 a.a) partial recombinant protein with GST tag.
Clone:	2C12
Isotype:	IgG2a
Specificity:	Recognizes Human Snf1lk
Cross-Reactivity (Details):	Species reactivity (tested):Human.
Purification:	Protein A Chromatography

Target Details

Target:	SIK1
Alternative Name:	SIK1 (SIK1 Products)

Target Details

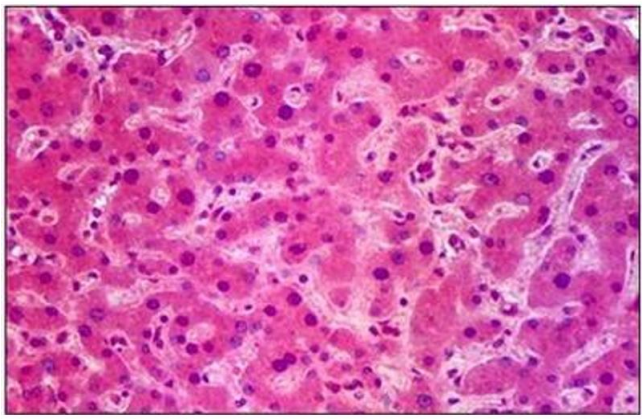
Background:	Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the g phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The STE group (homologs of yeast Sterile 7, 11, 20 kinases) consists of 50 kinases related to the mitogen-activated protein kinase (MAPK) cascade families (Ste7/MAP2K, Ste11/MAP3K, and Ste20/MAP4K). MAP kinase cascades, consisting of a MAPK and one or more upstream regulatory kinases (MAPKKs) have been best characterized in the yeast pheromone response pathway. Pheromones bind to Ste cell surface receptors and activate yeast MAPK pathway.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

Concentration:	0.5 mg/mL
Buffer:	PBS, pH 7.2
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.



Immunohistochemistry

Image 1.

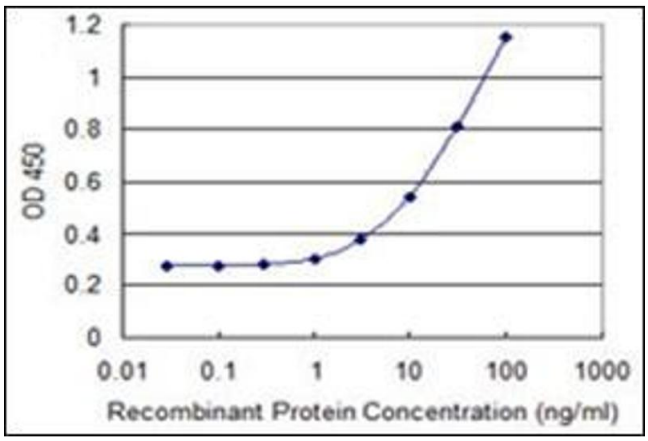


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Image 2.