

## Product datasheet for **AM31899PU-N**

### **SIK1B (1-101) Mouse Monoclonal Antibody [Clone ID: 2C12]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	2C12
Applications:	ELISA, IHC
Recommended Dilution:	<b>ELISA.</b> <b>Immunohistochemistry on Paraffin Sections:</b> 5 µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	SIK1 (AAH38504, 1 a.a. ~ 101 a.a) partial recombinant protein with GST tag
Specificity:	Recognizes Snf1lk at aa 1-101.
Formulation:	PBS, pH 7.2 State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein A Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	salt inducible kinase 1B (putative)
Database Link:	<a href="#">Entrez Gene 150094 Human</a> <a href="#">Entrez Gene 102724428 Human</a> <a href="#">A0A0B4I2F2</a>



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**Background:**

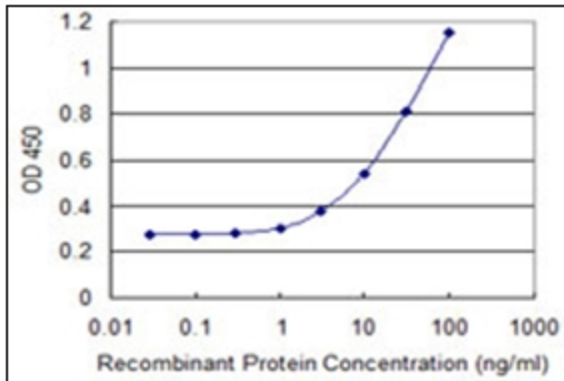
Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the  $\gamma$  phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular 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:**

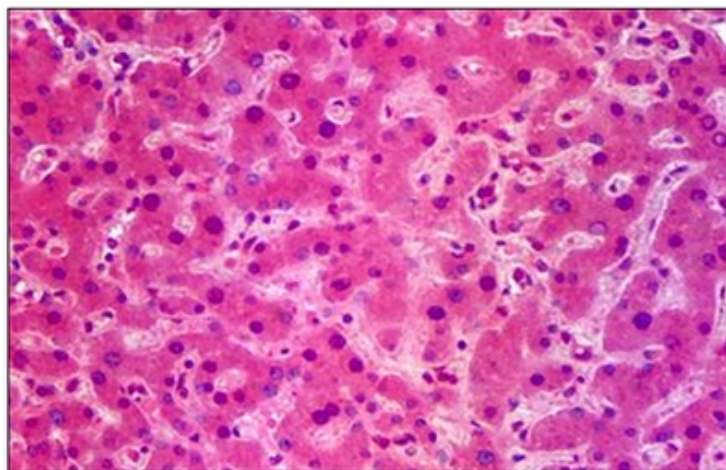
SIK-1, SIK, SNF1LK

**Protein Families:**

Druggable Genome, Protein Kinase

**Product images:**

Detection limit for recombinant GST tagged SIK1 is 0.3 ng/ml as a capture antibody.



Human Liver: Formalin-Fixed, Paraffin-Embedded (FFPE)