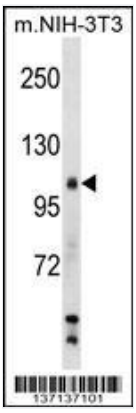
SIK2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Sik2, Polyclonal Antibody
Full Product Name	Sik2, ID (Sik2, Snf1lk2, Serine/threonine-protein kinase SIK2, Salt-inducible kinase 2, Serine/threonine-protein kinase SNF1-like kinase 2) (Azide free) (HRP)
Product Gene Name	anti-Sik2 antibody
Product Synonym Names	Sik2; Snf1lk2; Serine/threonine-protein kinase SIK2; Salt-inducible kinase 2; Serine/threonine-protein kinase SNF1-like kinase 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	104,198 Da
3D Structure	ModBase 3D Structure for Q8CFH6
Immunogen	Mouse Sik2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 605-633 amino acids from the Central region of Mouse Sik2.
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-Sik2 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-Sik2 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-Sik2 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-Sik2 antibody	Phosphorylates 'Ser-789' of IRS1 in insulin-stimulated adipocytes, potentially modulating the efficiency of insulin signal transduction. Inhibits CREB activity by phosphorylating and repressing TORCs, the CREB-specific coactivators.
Product References and Citations for anti-Sik2 antibody	Trivedi, C.M., et al. Dev. Cell 19(3):450-459(2010). Muraoka, M., et al. Am. J. Physiol. Endocrinol. Metab. 296 (6), E1430-E1439 (2009): Du, J., et al. Obesity (Silver Spring) 16(3):531-538(2008). Katoh, Y., et al. FEBS J. 273(12):2730-2748(2006). Horike, N., et al. J. Biol. Chem. 278(20):18440-18447(2003).
Other Notes	Small volumes of anti-Sik2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for Sik2 purchase	MBS6347674 is an antibody targeting Sik2. Also known as Sik2, ID (Sik2, Snf1lk2, Serine/threonine-protein kinase SIK2, Salt-inducible kinase 2, Serine/threonine-protein kinase SNF1-like kinase 2) (Azide free) (HRP). Reactive in Mouse. Host: Rabbit.



Western Blot (WB) of anti-Sik2 antibody
Mouse Sik2 Antibody (Center) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane).This demonstrates the Sik2 antibody detected the Sik2 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Sik2. It may not necessarily be applicable to this product.

NCBI GI #	38569497
NCBI GeneID	235344
NCBI Accession #	NP_848825.2
UniProt Primary Accession #	Q8CFH6
UniProt Related Accession #	Q8CFH6
GenBank Nucleotide #	NM_178710.3
NCBI Official Full Name	serine/threonine-protein kinase SIK2
NCBI Official Synonym Full Names	salt inducible kinase 2
NCBI Official Symbol	Sik2
NCBI Official Synonym Symbols	Snf1lk2; G630080D20Rik
UniProt Protein Name	Serine/threonine-protein kinase SIK2
UniProt Synonym Protein Names	Salt-inducible kinase 2; SIK-2; Serine/threonine-protein kinase SNF1-like kinase 2
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	Sik2
UniProt Synonym Gene Names	Snf1lk2; SIK-2
UniProt Entry Name	SIK2_MOUSE
NCBI Protein Information	serine/threonine-protein kinase SIK2

UniProt Comments for Sik2	QIK: a serine/threonine kinase of the CAMKL family and related to AMPK. Specifically expressed in adipose tissues. Like AMPK, QIK is phosphorylated and activated by LKB1. Part of a molecular complex including TORC2 and calcineurin that regulates the effects of circulating glucose and gut hormones during feeding on TORC2-mediated gene expression. In mice, insulin promotes the phosphorylation and ubiquitin-dependent degradation of TORC2, inhibiting gluconeogenic gene expression during re-feeding. In response to insulin, Akt2 phosphorylates and activates QIK which in turn stimulates the phosphorylation and cytoplasmic translocation of TORC2 where it associates with COP1, which promotes its ubiquitination and proteasomal degradation. Phosphorylates Ser794 of IRS1 in insulin-stimulated adipocytes, potentially modulating the efficiency of insulin signal transduction. Inhibits CREB activity by phosphorylating and repressing the CREB-specific coactivators, CRTC1-3. Protein type: EC 2.7.11.1; Protein kinase, CAMK; Kinase, protein; Protein kinase, Ser/Thr (non-receptor); CAMK group; CAMKL family; QIK subfamily Cellular Component: cytoplasm; intracellular; nucleus Molecular Function: transferase activity; protein serine/threonine kinase activity; metal ion binding; transferase activity, transferring phosphorus-containing groups; magnesium ion binding; nucleotide binding; kinase activity; ATP binding; protein kinase activity Biological Process: regulation of insulin receptor signaling pathway; protein amino acid autophosphorylation; insulin receptor signaling pathway; protein amino acid phosphorylation; phosphorylation
Research Articles on Sik2	**1.** study identifies the salt-inducible kinases as major targets of bosutinib and dasatinib that mediate the effects of these drugs on the innate immune system and provides novel mechanistic insights into the anti-inflammatory properties of these drugs.
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