10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Mouse Sik2 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP17441c

Specification

Mouse Sik2 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q8CFH6

Mouse Sik2 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 235344

Other Names
Serine/threonine-protein kinase SIK2, Salt-inducible kinase 2, SIK-2, Serine/threonine-protein kinase SNF1-like kinase 2, Sik2, Snf1lk2

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Mouse Sik2 Antibody (Center) Blocking Peptide - Protein Information

Name Sik2

Synonyms Snf1lk2

Function
Serine/threonine-protein kinase that plays a role in many biological processes such as fatty acid oxidation, autophagy, immune response or glucose metabolism (PubMed:12624099, PubMed:16817901, PubMed:29211348). Phosphorylates 'Ser-794' of IRS1 in insulin- stimulated adipocytes, potentially modulating the efficiency of insulin signal transduction (PubMed:12624099). Inhibits CREB activity by phosphorylating and repressing TORCs, the CREB-specific coactivators (PubMed:16817901). Phosphorylates EP300 and thus inhibits its histone acetyltransferase activity. In turn, regulates the DNA-binding ability of several transcription factors such as PPARA or MLXIPL (By similarity). Also plays a role in thymic T-cell development (PubMed:34732767).

Cellular Location
Cytoplasm.

Tissue Location
Present in both white and brown adipose tissues with levels increasing during adipocyte differentiation. Lower levels observed in the testis.

Mouse Sik2 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

Mouse Sik2 Antibody (Center) Blocking Peptide - Images

Mouse Sik2 Antibody (Center) Blocking Peptide - Background

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.

Mouse Sik2 Antibody (Center) Blocking Peptide - References

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)