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SIK2 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP18127c

Specification

SIK2 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q9H0K1

SIK2 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 23235

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

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.

SIK2 Antibody (Center) Blocking Peptide - Protein Information

Name SIK2

Synonyms KIAA0781 {ECO:0000312|EMBL:BAA34501.3},

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:23322770, PubMed:26983400). Phosphorylates 'Ser-794' 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 (PubMed:15454081). Phosphorylates EP300 and thus inhibits its histone acetyltransferase activity (PubMed:21084751, PubMed:26983400). In turn, regulates the DNA-binding ability of several transcription factors such as PPARA or MLXIPL (PubMed:21084751, PubMed:26983400). Also plays a role in thymic T-cell development (By similarity).

Cellular Location
Cytoplasm. Endoplasmic reticulum membrane

SIK2 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

SIK2 Antibody (Center) Blocking Peptide - Images

SIK2 Antibody (Center) Blocking Peptide - Background

Phosphorylates 'Ser-794' 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.

SIK2 Antibody (Center) Blocking Peptide - References

Ahmed, A.A., et al. Cancer Cell 18(2):109-121(2010)Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Nagel, S., et al. Leuk. Lymphoma 51(5):881-891(2010)Wang, A.G., et al. Biochem. Biophys. Res. Commun. 345(3):1022-1032(2006)Katoh, Y., et al. Eur. J. Biochem. 271(21):4307-4319(2004)