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SIK2 / SNF1LK2 Antibody (clone S15G10)

Mouse Monoclonal Antibody
Catalog # ALS12002

Specification

SIK2 / SNF1LK2 Antibody (clone S15G10) - Product Information

Application	**IHC, ICC, WB**
Primary Accession	Q9H0K1
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**104kDa KDa**

SIK2 / SNF1LK2 Antibody (clone S15G10) - Additional Information

Gene ID 23235

Other Names
Serine/threonine-protein kinase SIK2, 2.7.11.1, Qin-induced kinase, Salt-inducible kinase 2, SIK-2, Serine/threonine-protein kinase SNF1-like kinase 2, SIK2

Target/Specificity
Recombinant human SIK2

Reconstitution & Storage
Store at 4°C. Do not freeze.

Precautions
SIK2 / SNF1LK2 Antibody (clone S15G10) is for research use only and not for use in diagnostic or therapeutic procedures.

SIK2 / SNF1LK2 Antibody (clone S15G10) - 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:<a

href="http://www.uniprot.org/citations/26983400" target="_blank">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

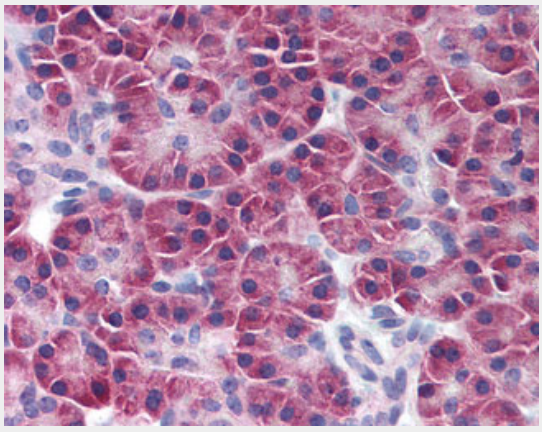
Volume
50 µl

SIK2 / SNF1LK2 Antibody (clone S15G10) - Protocols

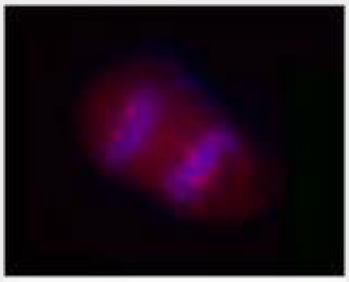
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SIK2 / SNF1LK2 Antibody (clone S15G10) - Images

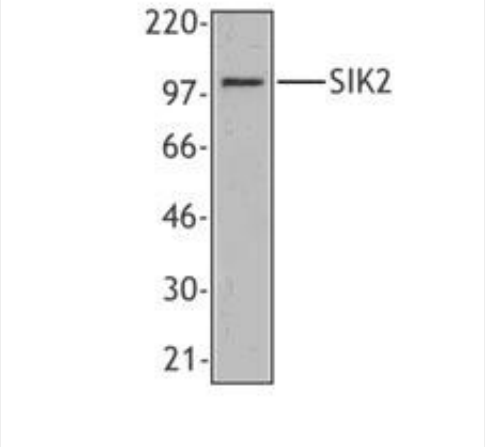


Anti-SIK2 / SNF1LK2 antibody IHC of human pancreas.



Overnight nocodazole treated Hela cells stained with purified mouse monoclonal antibody against...

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Western blot of extracts from HeLa cells, using anti-SIK2, clone S15G10.

SIK2 / SNF1LK2 Antibody (clone S15G10) - 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 / SNF1LK2 Antibody (clone S15G10) - References

Lizcano J.M.,et al.EMBO J. 23:833-843(2004).
Nagase T.,et al.DNA Res. 5:277-286(1998).
Nakajima D.,et al.DNA Res. 9:99-106(2002).
Wiemann S.,et al.Genome Res. 11:422-435(2001).
Ota T.,et al.Nat. Genet. 36:40-45(2004).