

SIK2 / SNF1LK2 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS14823**Specification**

SIK2 / SNF1LK2 Antibody (Internal) - Product Information

Application	ICC, IF, IHC
Primary Accession	O9H0K1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	104kDa KDa

SIK2 / SNF1LK2 Antibody (Internal) - 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

Human SIK2 / SNF1LK2. SIK2 antibody is predicted to not cross-react with other SIK protein family members.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

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

SIK2 / SNF1LK2 Antibody (Internal) - 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

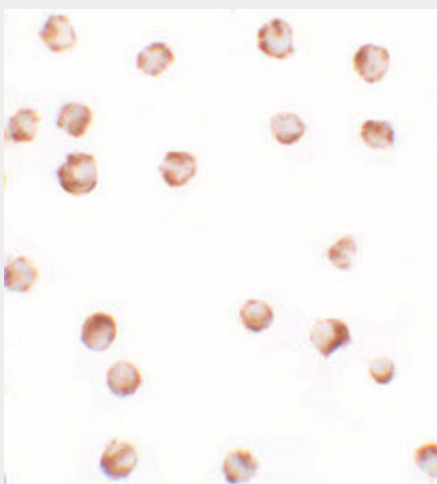
Cytoplasm. Endoplasmic reticulum membrane

SIK2 / SNF1LK2 Antibody (Internal) - Protocols

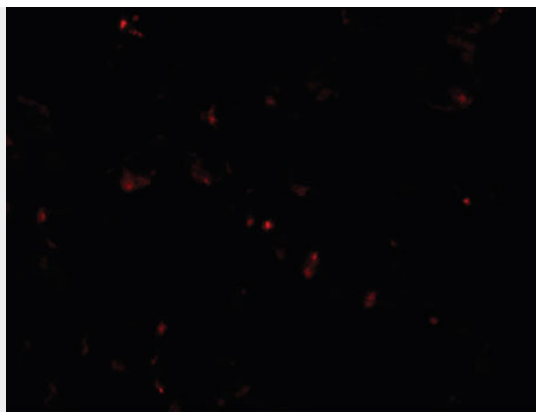
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

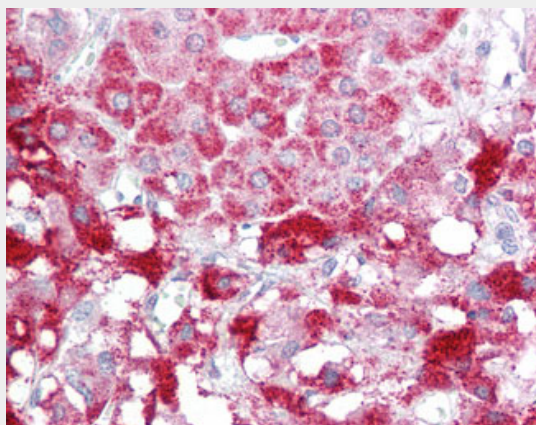
SIK2 / SNF1LK2 Antibody (Internal) - Images



Immunocytochemistry of SIK2 in SW480 cells with SIK2 antibody at 2.5 ug/ml.



Immunofluorescence of SIK2 in SW480 cells with SIK2 antibody at 5 ug/ml.



Anti-SIK2 / SNF1LK2 antibody IHC of human adrenal.

SIK2 / SNF1LK2 Antibody (Internal) - 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 (Internal) - 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).