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SIK2 Rabbit pAb

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Catalog # AP58555

Product Information

Application	WB, E
Primary Accession	Q9H0K1
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	103915
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SNF1LK2/SIK2
Epitope Specificity	281-380/926
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm
SIMILARITY	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. SNF1 subfamily. Contains 1 protein kinase domain. Contains 1 UBA domain.
SUBUNIT	Interacts with and phosphorylates TORC2/CRTC2.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

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, KIAA0781 {ECO:0000312|EMBL:BAA34501.3}, QIK, SNF1LK2
Dilution	WB=1:500-2000,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

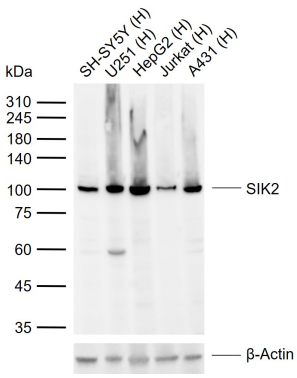
Protein Information

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

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.

Images



Sample:
Lane 1: Human SH-SY5Y cell lysates
Lane 2: Human U251 cell lysates
Lane 3: Human HepG2 cell lysates
Lane 4: Human Jurkat cell lysates
Lane 5: Human A431 cell lysates
Primary: Anti-SIK2 (AP58555) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 104 kDa
Observed band size: 100 kDa