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SIK2 Rabbit pAb

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Catalog # AP58555

Product Information

Application	WB
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
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

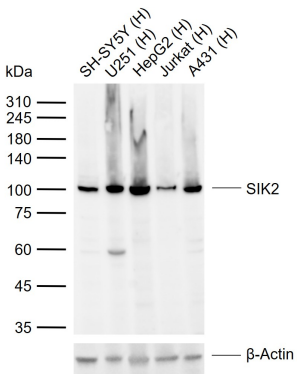
Name	SIK2
Synonyms	KIAA0781 {ECO:0000312|EMBL:BAA34501.3},

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

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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

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