

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SNF1LK2 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human SNF1LK2 Ala663-Leu818 Accession # Q9H0K1
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

SNF1LK2 (Sucrose non-fermenting 1 like kinase 2) also known as SIK2 (Salt-inducible kinase 2) is a cytoplasmic 125 kDa member of the CAMK Ser/Thr protein kinase family, AMPK subfamily of enzymes. It is expressed in preadipocytes/adipocytes, with levels strongly induced during early differentiation. SNF1LK2 regulates the early phase of insulin signaling by phosphorylating IRS-1 on Ser794. Human SNF1LK2 is 926 amino acids (aa) in length and contains a protein kinase domain (aa 20-271) with an ATP binding site (Lys49) and a catalytic loop (aa 140-149), followed by a phosphorylation activation site at Thr175, a UBA (ubiquitin-associated) domain (aa 295-335) and another PKA-dependent phosphorylation site at Ser587.

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