

Human SNF1LK2 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF5737

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human SNF1LK2 in Western blots.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human SNF1LK2 Ala663-Leu818 Accession # Q9H0K1		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

APPLICATIONS

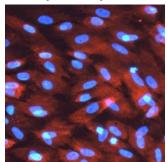
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below
Immunocytochemistry	5-15 μg/mL	See Below

DATA

Detection of Human SNF1LK2 by Western Blot. Western blot shows lysates of human mesenchymal stem cells (MSC) grown in the absence (-) or presence (+) of StemXVivo™ Adipogenic Supplement (Catalog # CCM001). PVDF membrane was probed with 1 µg/mL of Goat Anti-Human SNF1LK2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5737), followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for SNF1LK2 at approximately 125 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



SNF1LK2 in Human Adipocytes. SNF1LK2 was detected in immersion fixed human adipocytes using 10 µg/mL Goat Anti-Human SNF1LK2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5737) for 3 hours at room temperature. Cells were stained with the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUNI

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 site at Thr175, a UBA (ubiquitin-associated) domain (aa 295-335) and another PKA-dependent phosphorylation site at Ser587.

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