

Anti-SGK1 Antibody Picoband®

Catalog Number: PB9434

About SGK1

Serine/threonine-protein kinase Sgk1, also called SGK1, encodes a serine/threonine protein kinase that plays an important role in cellular stress response. By fluorescence in situ hybridization, this gene is mapped to 6q23.2. This kinase activates certain potassium, sodium, and chloride channels, suggesting an involvement in the regulation of processes such as cell survival, neuronal excitability, and renal sodium excretion. High levels of expression of this gene may contribute to conditions such as hypertension and diabetic nephropathy. Several alternatively spliced transcript variants encoding different isoforms have been noted for this gene.

Overview

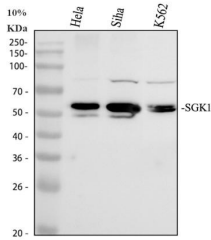
Product Name	Anti-SGK1 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-SGK1 Antibody Picoband® catalog # PB9434. Tested in ICC/IF, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IF, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	O00141

Technical Details

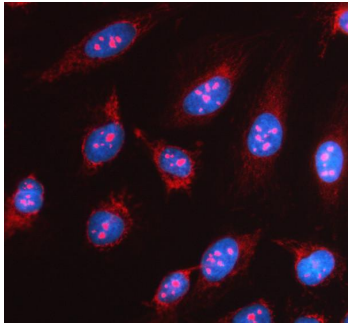
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human SGK1, different from the related mouse sequence by three amino acids, and from the related rat sequence by one amino acid.
Recommended Detection Systems	Boster recommends ECL Plus Western Blotting Substrate (Catalog # AR1196-200) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for ICC.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human

Anti-SGK1 Antibody Picoband® (PB9434) Images



Western blot analysis of SGK1 using anti-SGK1 antibody (PB9434). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HeLa whole cell lysates, Lane 2: human SiHa whole cell lysates, Lane 3: human K562 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SGK1 antigen affinity purified polyclonal antibody (PB9434) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054) at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for SGK1 at approximately 59 kDa. The expected band size for SGK1 is at 49 kDa.



IF analysis of SGK1 using anti-SGK1 antibody (PB9434). SGK1 was detected in an immunocytochemical section of HeLa cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-SGK1 Antibody (PB9434) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

2 Publications Citing This Product

1. PubMed ID: 29212953, Scortegagna M1, Berthon A2, Settas N2, Giannakou A2, Garcia G1, Li JL1, James B1, Liddington RC1, Vilches-Moure JG3, Stratakis CA2, Ronai ZA1,4. JCI Insight. 2017 Dec 7;2(23). pii: 97128. doi: 10.1172/jci.insight.97128. [Epub ahead of print] The E...

2. PubMed ID: 27701413, Neuropsin Inactivation Has Protective Effects against Depressive-Like Behaviours and Memory Impairment Induced by Chronic Stress

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Anti-SGK1 Antibody

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