

Anti-Phospho-SGK1 (S422) Antibody

Catalog Number: A00673S422

About SGK1

Since their discovery in the early 1990's, the peroxisome proliferator activated receptors (PPARs) have attracted significant attention. This is primarily because PPARs serve as receptors for two very important classes of drugs: the hypolipidemic fibrates and the insulin sensitizing thiazolidinediones. Peroxisome proliferators are non-genotoxic carcinogens that are purported to exert their effect on cells through their interaction with members of the nuclear hormone receptor family termed PPARs. Nuclear hormone receptors are ligand-dependent intracellular proteins that stimulate transcription of specific genes by binding to specific DNA sequences following activation by the appropriate ligand. Upon binding fatty acids or hypolipidemic drugs, PPARs form heterodimers with retinoid X receptors (RXRs) and these heterodimers regulate the expression of target genes. There are 3 known subtypes of PPARs: PPAR-alpha, PPAR-delta and PPAR-gamma. Mostly target genes are involved in the catabolism of fatty acids. Conversely, PPAR-gamma is activated by peroxisome proliferators such as prostaglandins, leukotrienes and Anti diabetic thiazolidinediones and affects the expression of genes involved in the storage of the fatty acids. PPAR-gamma may also be involved in adipocyte differentiation. It has also been shown that PPARs can induce transcription of acyl coenzyme A oxidase and cytochrome P450 through interaction with specific response elements. Anti-Ppar Antibody is useful for research interested in transcription and metabolic pathways.

Overview

Product Name	Anti-Phospho-SGK1 (S422) Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Phospho-SGK1 (S422) Antibody catalog # A00673S422. Tested in ELISA, IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IHC, WB
Clonality	Polyclonal
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	O00141

Technical Details

Immunogen	Synthesized peptide derived from human SGK1 around the phosphorylation site of S422.
Predicted Reactive Species	Boar, Bovine, Canine, Golden Hamster
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG

Form	Liquid
Concentration	1 mg/ml
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>WB 1:500-1:2000</p> <p>IHC 1:100-1:300</p> <p>ELISA 1:40000</p>

Anti-Phospho-SGK1 (S422) Antibody (A00673S422) Images

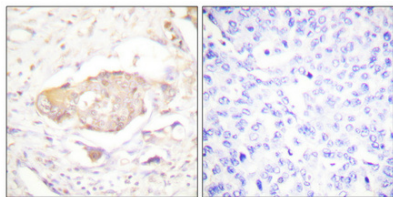


Figure 2. Immunohistochemistry validation of SGK1 using Anti-Phospho-SGK1 (S422) Antibody (A00673S422).

Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100 (4°C)

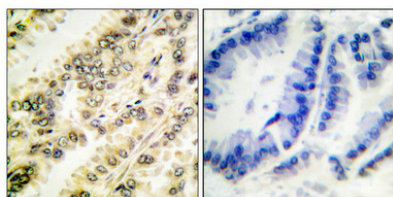


Figure 3. Immunohistochemistry validation of SGK1 using Anti-Phospho-SGK1 (S422) Antibody (A00673S422).

Immunohistochemical analysis of paraffin-embedded human lung cancer. Antibody was diluted at 1:100 (4°C)

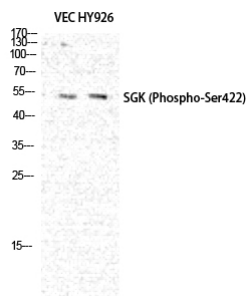


Figure 1. Western blotting validation for Anti-Phospho-SGK1 (S422) Antibody A00673S422

Western Blot (WB) analysis of VEC HY926 cells using Phospho-SGK1 (S422) polyclonal antibody. Electrophoresis was performed on a SDS-PAGE gel. To determine SDS-PAGE gel concentration

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