



SGK1 (phospho Ser422) Polyclonal Antibody

| associated with the mitochondria. In osmoregulation through the epithelial sodium channel, it can be localized to the cytoplasmic surface of the cell membrane. Nuclear, upon phosphorylation.; [Isoform 2]: Cell membrane. Tissue Specificity Expressed in most tissues with highest levels in the pancreas, followed by | | | | |
|---|--------------------|---|--|--|
| Reactivity Human;Mouse;Rat Applications WB:IHC;IF;ELISA Gene Name SGK1 Protein Name Serine/threonine-protein kinase Sgk1 Immunogen The antiserum was produced against synthesized peptide derived from human SGK around the phosphorylation site of Ser422. AA range:381-430 Specificity Phospho-SGK1 (S422) Polycolonal Antibody detects endogenous levels of SGK1 protein only when phosphorylated at S422. Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. Source Polyclonal, Rabbit,IgG Purification The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. Dilution WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/40000 IF 1:50-200 Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms SGK1; SGK; Serine/threonine-protein kinase Sgk1; Serum/glucocorticoid-regulated kinase 1 Observed Band 57kD Cell Pathway Cytoplasm. Nucleus, Endoplasmic reticulum membrane. Cell membrane. Mitochondrion. The subcellular localization is controlled by the cell cycle, as well as by exposure to specific hormones and environmental stress or threatment with glucocorticoid-regulated kinase 1 Observed Band 57kD | Catalog No | BYab-14349 | | |
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| Function | catalytic activity:ATP + a protein = ADP + a phosphoprotein.,enzyme regulation:Two specific sites, one in the kinase domain (Thr-256) and the other in the C-terminal regulatory region (Ser-422), need to be phosphorylated for its full activation.,function:Protein kinase that plays an important role in cellular stress response. 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. Sustained high levels and activity may contribute to conditions such as hypertension and diabetic nephropathy. Mediates cell survival signals, phosphorylates and negatively regulates pro-apoptotic FOXO3A. Phosphorylates NEDD4L, which leads to its inactivation and to the subsequent activation of various channels and transporters such as ENaC, Kv1.3, or EAAT1.,induction:By serum a |
|---------------------------|---|
| Background | This gene encodes a serine/threonine protein kinase that plays an important role in cellular stress response. 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. [provided by RefSeq, Jan 2009], |
| matters needing attention | Avoid repeated freezing and thawing! |
| Usage suggestions | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel. |

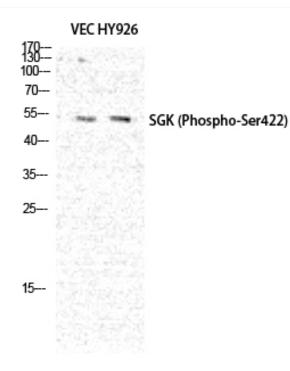
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Products Images



Western Blot analysis of VEC HY926 cells using Phospho-SGK1 (S422) Polyclonal Antibody diluted at 1:500

Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.

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| 1.200 1.000 0.800 0.600 0.400 0.200 0.000 phosphopeptide ■ OD 450nm | 0.094 non-phosphopeptide Reading | Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using SGK (Phospho-Ser422) Antibody |
|---|--|--|
| | | Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using SGK (Phospho-Ser422) Antibody. The picture on the right is blocked with the phospho peptide. |
| | 117 85 | Western blot analysis of lysates from HeLa cells treated with Insulin 0.01U/ml 15', using SGK (Phospho-Ser422) Antibody. The lane on the right is blocked with the phospho peptide. |
| SGK — (pSer422) | 48 | |
| | 34 | |
| | 26 | |
| | 19 (kD) | |

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