

## Rabbit anti-Human SIK1 Polyclonal Antibody | anti-SIK1 antibody

SIK1 Antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                    |
|-----------|--------|------------|-------------------------------------------------|
| AAA232672 | Rabbit | Human      | Immunofluorescence, Immunohistochemistry, ELISA |

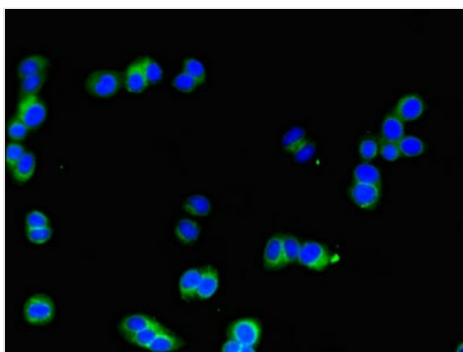
### PRODUCT SYNONYMS

SIK1; Polyclonal Antibody; SIK1 Antibody; Serine/threonine-protein kinase SIK1; Salt-inducible kinase 1; SIK-1; Serine/threonine-protein kinase SNF1-like kinase 1; Serine/threonine-protein kinase SN; SIK; SNF1LK; anti-SIK1 antibody

### PRODUCT SPECIFICATIONS

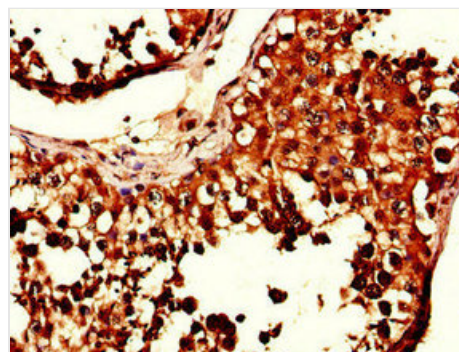
|                                                |                                                                                                                |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                         |
| Reactivity                                     | Human                                                                                                          |
| Clonality                                      | Polyclonal                                                                                                     |
| Isotype                                        | IgG                                                                                                            |
| Purity/Purification                            | >95%, Protein G purified                                                                                       |
| Form/Format                                    | Liquid                                                                                                         |
| Sequence Length                                | 783                                                                                                            |
| Applicable Applications for anti-SIK1 antibody | IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA                                                     |
| Immunogen                                      | Recombinant Human Serine/threonine-protein kinase SIK1 protein (492-750AA)                                     |
| Preservative                                   | 0.03% Proclin 300                                                                                              |
| Constituents                                   | 50% Glycerol, 0.01M PBS, PH 7.4                                                                                |
| Conjugation                                    | Non-conjugated                                                                                                 |
| Santa Cruz Alternative                         | Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-134002 / sc-366014 / sc-83754          |
| Preparation and Storage                        | Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze. |

### IMAGES



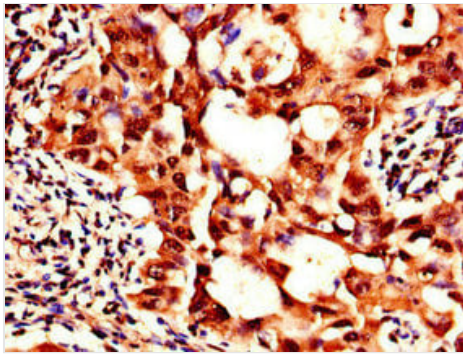
#### IHC (Immunohistochemistry)

Immunofluorescent analysis of HepG2 cells using AAA232672 at a dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human testis tissue using AAA232672 at dilution of 1:100



**IHC (Immunohistochemistry)**  
 Immunohistochemistry of paraffin-embedded human lung cancer using AAA232672 at dilution of 1:100

**ADDITIONAL INFORMATION**

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-SIK1 antibody</b> | <p>Serine/threonine-protein kinase involved in various processes such as cell cycle regulation, gluconeogenesis and lipogenesis regulation, muscle growth and differentiation and tumor suppression. Phosphorylates HDAC4, HDAC5, PPME1, SREBF1, CRTC1/TORC1 and CRTC2/TORC2. Acts as a tumor suppressor and plays a key role in p53/TP53-dependent anoikis, a type of apoptosis triggered by cell detachment: required for phosphorylation of p53/TP53 in response to loss of adhesion and is able to suppress metastasis. Part of a sodium-sensing signaling network, probably by mediating phosphorylation of PPME1: following increases in intracellular sodium, SIK1 is activated by CaMK1 and phosphorylates PPME1 subunit of protein phosphatase 2A (PP2A), leading to dephosphorylation of sodium/potassium-transporting ATPase ATP1A1 and subsequent increase activity of ATP1A1. Acts as a regulator of muscle cells by phosphorylating and inhibiting class II histone deacetylases HDAC4 and HDAC5, leading to promote expression of MEF2 target genes in myocytes. Also required during cardiomyogenesis by regulating the exit of cardiomyoblasts from the cell cycle via down-regulation of CDKN1C/p57Kip2. Acts as a regulator of hepatic gluconeogenesis by phosphorylating and repressing the CREB-specific coactivators CRTC1/TORC1 and CRTC2/TORC2, leading to inhibit CREB activity. Also regulates hepatic lipogenesis by phosphorylating and inhibiting SREBF1. In concert with CRTC1/TORC1, regulates the light-induced entrainment of the circadian clock by attenuating PER1 induction; represses CREB-mediated transcription of PER1 by phosphorylating and deactivating CRTC1/TORC1 (By similarity).</p> |
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**NCBI AND UNIPROT INFORMATION**

|                            |                                                            |
|----------------------------|------------------------------------------------------------|
| NCBI GI #                  | 1002341713                                                 |
| NCBI GeneID                | 102724428                                                  |
| NCBI Accession #           | NP_001307572.1                                             |
| NCBI GenBank Nucleotide #  | NM_001320643.2                                             |
| UniProt Accession #        | P57059; Q5R2V5; Q6ZNL8; Q86YJ2; A6NC84                     |
| Molecular Weight           | 84,902 Da                                                  |
| NCBI Official Full Name    | serine/threonine-protein kinase SIK1                       |
| NCBI Official Symbol       | LOC102724428                                               |
| NCBI Protein Information   | serine/threonine-protein kinase SIK1                       |
| UniProt Protein Name       | Serine/threonine-protein kinase SIK1                       |
| UniProt Gene Name          | SIK1                                                       |
| UniProt Synonym Gene Names | SIK; SNF1LK; SIK-1; Serine/threonine-protein kinase SNF1LK |
| UniProt Entry Name         | SIK1_HUMAN                                                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/sik1-antibody-immunofluorescence-immunohistochemistry-elisa/232672>