

# Anti-Sphingosine Kinase 1 (Ser-225), Phosphospecific Antibody

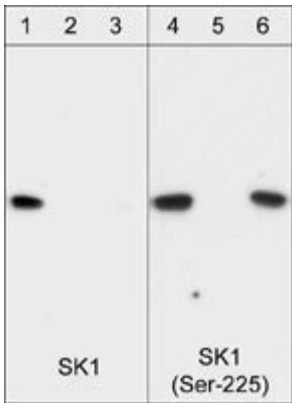


## Product Details

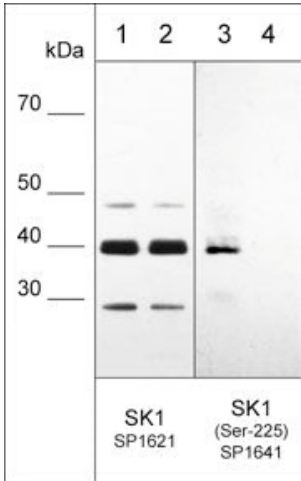
|                    |                                                                                                                                                                                                                                                                                                                       |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Available Variants | 100 µL (SKU:SP1641)                                                                                                                                                                                                                                                                                                   |
| Conjugate          | Unconjugated                                                                                                                                                                                                                                                                                                          |
| Isotype            | IgG                                                                                                                                                                                                                                                                                                                   |
| Gene Name          | SPHK1                                                                                                                                                                                                                                                                                                                 |
| Host Species       | Rabbit                                                                                                                                                                                                                                                                                                                |
| Format             | Antigen Affinity Purified                                                                                                                                                                                                                                                                                             |
| Physical State     | Liquid                                                                                                                                                                                                                                                                                                                |
| Buffer             | PBS + 1 mg/ml BSA, 0.05% NaN <sub>3</sub> and 50% glycerol                                                                                                                                                                                                                                                            |
| Applications       | ELISA, WB                                                                                                                                                                                                                                                                                                             |
| Dilution Ranges    | WB: 1:1000                                                                                                                                                                                                                                                                                                            |
| Species Reactivity | Human                                                                                                                                                                                                                                                                                                                 |
| Immunogen          | Phospho-SK1 (Ser-225) synthetic peptide (coupled to carrier protein) corresponding to amino acids surrounding serine 225 in human SK1. This sequence has 4 amino acid differences from mouse and 5 from rat SK1, and is not homologous to sequences in SK2. The conserved site in rat and mouse SK1 is at serine 224. |
| Specificity        | This antibody was cross-adsorbed to non-specific phosphoserine and unphosphorylated SK1 (Ser-225) peptide before affinity purification using phospho-SK1 (Ser-225) peptide. The purified antibody detects a 47 kDa* full-length recombinant human SK1 protein phosphorylated with ERK2.                               |
| Molecular Weight   | 42                                                                                                                                                                                                                                                                                                                    |
| Quality Control    | Western blots performed on each lot.                                                                                                                                                                                                                                                                                  |

|                                                |                                                                                                                                                                        |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                                 | Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.                 |
| <b>UniProt ID</b>                              | <a href="#">Q9NYA1</a>                                                                                                                                                 |
| <b>Country of Origin</b>                       | United States                                                                                                                                                          |
| <b>Shipping</b>                                | Blue Ice                                                                                                                                                               |
| <b>Expiration</b>                              | After date of receipt, stable for at least 1 year at -20°C.                                                                                                            |
| <b>Usage Statement</b>                         | For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website. |
| <b>Post Translational Modification Type</b>    | Phosphorylated                                                                                                                                                         |
| <b>Post Translational Modification Residue</b> | Ser-225                                                                                                                                                                |

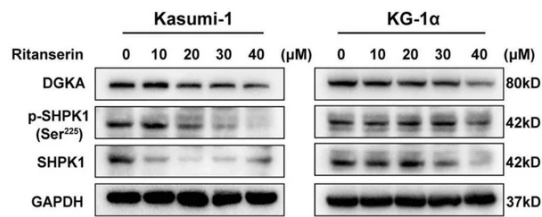
### Product Images



Western blot image of recombinant his-tagged human SK1 protein that was phosphorylated with ERK-2. Blots were probed with anti-SK1 (Central Region) (SP1621; lanes 1-3) and anti-SK1 (Ser-225) (SP1641; lanes 4-6). Both antibodies were used in the presence of no peptide (lanes 1 & 4), phospho-SK1 (Ser-225) peptide (SX1645; lanes 2 & 5), or unphosphorylated SK1 (Ser-225) peptide (SX1625; lanes 3 & 6).



Western blot of HeLa stimulated with calyculin A (lanes 1-4). The blots were untreated (lane 1 & 3) or treated with lambda phosphatase (lane 2 & 4), then probed with anti-SK1 (Central region) SP1621 (lanes 1 & 2) or anti-SK1 (Ser-225) SP1641 (lanes 3 & 4).



The protein expression levels of DGKα, SphK1 (Cat. SP5421, 1:1000) and p-SphK1(Ser225) (Cat. SP1641) in AML cells after ritanserin treatment for 48 h. Image from publication CC-BY-4.0. [PMID: 37392305](#)

Product Page URL: [www.antibodiesinc.com/products/anti-sphingosine-kinase-1-ser-225-phosphospecific-antibody-sp1641](http://www.antibodiesinc.com/products/anti-sphingosine-kinase-1-ser-225-phosphospecific-antibody-sp1641)



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