

## Anti-SPAK antibody

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|---------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>        | Rabbit polyclonal to SPAK.                                                                                                  |
| <b>Model</b>              | STJ95742                                                                                                                    |
| <b>Host</b>               | Rabbit                                                                                                                      |
| <b>Reactivity</b>         | Human, Mouse, Rat                                                                                                           |
| <b>Applications</b>       | ELISA, IHC, WB                                                                                                              |
| <b>Immunogen</b>          | Synthesized peptide derived from human SPAK around the non-phosphorylation site of S311.                                    |
| <b>Immunogen Region</b>   | 250-330 aa                                                                                                                  |
| <b>Gene ID</b>            | <a href="#">27347</a>                                                                                                       |
| <b>Gene Symbol</b>        | <a href="#">STK39</a>                                                                                                       |
| <b>Dilution range</b>     | WB 1:500-1:2000IHC 1:100-1:300ELISA 1:40000                                                                                 |
| <b>Specificity</b>        | SPAK Polyclonal Antibody detects endogenous levels of SPAK protein.                                                         |
| <b>Tissue Specificity</b> | Predominantly expressed in brain and pancreas followed by heart, lung, kidney, skeletal muscle, liver, placenta and testis. |
| <b>Purification</b>       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.       |
| <b>Note</b>               | For Research Use Only (RUO).                                                                                                |
| <b>Protein Name</b>       | STE20/SPS1-related proline-alanine-rich protein kinase Ste-20-related kinase DCHT Serine/threonine-protein kinase 39        |
| <b>Molecular Weight</b>   | 60 kDa                                                                                                                      |

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|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Clonality</b>                        | Polyclonal                                                                                                                                                                                |
| <b>Conjugation</b>                      | Unconjugated                                                                                                                                                                              |
| <b>Isotype</b>                          | IgG                                                                                                                                                                                       |
| <b>Formulation</b>                      | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                   |
| <b>Concentration</b>                    | 1 mg/ml                                                                                                                                                                                   |
| <b>Storage Instruction</b>              | Store at -20°C, and avoid repeat freeze-thaw cycles.                                                                                                                                      |
| <b>Database Links</b>                   | <a href="https://www.ncbi.nlm.nih.gov/Protein/177170">HGNC:177170MIM:607648</a>                                                                                                           |
| <b>Alternative Names</b>                | STE20/SPS1-related proline-alanine-rich protein kinase Ste-20-related kinase DCHT Serine/threonine-protein kinase 39                                                                      |
| <b>Function</b>                         | May act as a mediator of stress-activated signals. Mediates the inhibition of SLC4A4, SLC26A6 as well as CFTR activities by the WNK scaffolds, probably through phosphorylation.          |
| <b>Sequence and Domain Family</b>       | PAPA box (proline-alanine repeats) may target the kinase to a specific subcellular location by facilitating interaction with intracellular proteins such as actin or actin-like proteins. |
| <b>Cellular Localization</b>            | Cytoplasm Nucleus. Nucleus when caspase-cleaved.                                                                                                                                          |
| <b>Post-translational Modifications</b> | Phosphorylated at Ser-309 by PRKCQ.                                                                                                                                                       |

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