



# SPAK (phospho Ser309) Polyclonal Antibody

<b>Catalog No</b>	BYab-14502
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Gene Name</b>	STK39
<b>Protein Name</b>	STE20/SPS1-related proline-alanine-rich protein kinase
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human STK39 around the phosphorylation site of Ser311. AA range:277-326
<b>Specificity</b>	Phospho-SPAK (S311) Polyclonal Antibody detects endogenous levels of SPAK protein only when phosphorylated at S311.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/5000.. IF 1:50-200
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	STK39; SPAK; STE20/SPS1-related proline-alanine-rich protein kinase; Ste-20-related kinase; DCHT; Serine/threonine-protein kinase 39
<b>Observed Band</b>	60kD
<b>Cell Pathway</b>	Cytoplasm . Nucleus . Nucleus when caspase-cleaved. .
<b>Tissue Specificity</b>	Predominantly expressed in brain and pancreas followed by heart, lung, kidney, skeletal muscle, liver, placenta and testis.
<b>Function</b>	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,domain: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.,function:May act as a mediator of stress-activated signals.,similarity:Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily.,similarity:Contains 1 protein kinase domain.,subcellular location:Nucleus when caspase-cleaved.,tissue specificity:Predominantly expressed in brain and pancreas followed by heart, lung, kidney, skeletal muscle, liver, placenta and testis.,

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### Background

This gene encodes a serine/threonine kinase that is thought to function in the cellular stress response pathway. The kinase is activated in response to hypotonic stress, leading to phosphorylation of several cation-chloride-coupled cotransporters. The catalytically active kinase specifically activates the p38 MAP kinase pathway, and its interaction with p38 decreases upon cellular stress, suggesting that this kinase may serve as an intermediate in the response to cellular stress. [provided by RefSeq, Jul 2008],

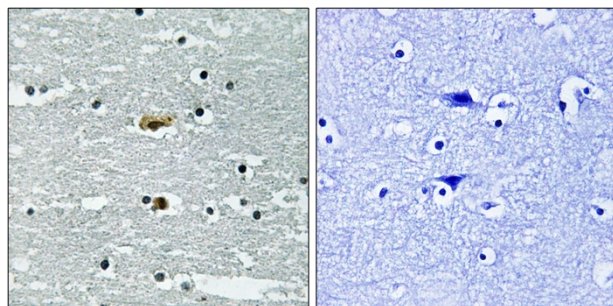
### matters needing attention

Avoid repeated freezing and thawing!

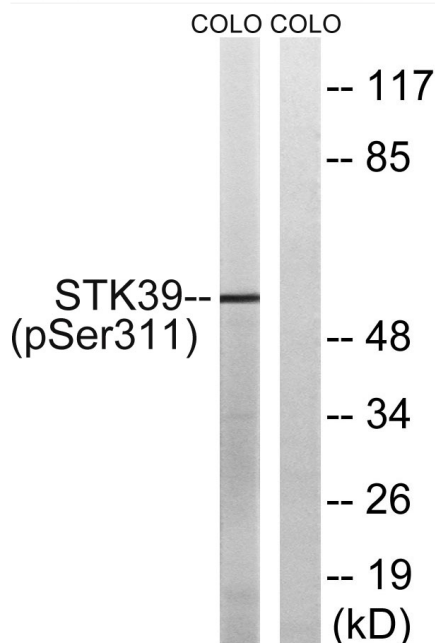
### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Immunohistochemistry analysis of paraffin-embedded human brain, using STK39 (Phospho-Ser311) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from COLO205 cells, using STK39 (Phospho-Ser311) Antibody. The lane on the right is blocked with the phospho peptide.