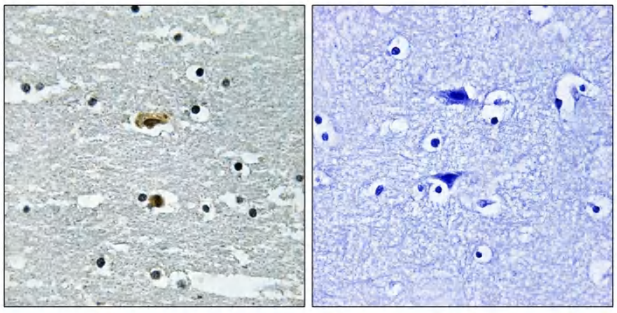
SPAK (phospho Ser309) Polyclonal Antibody

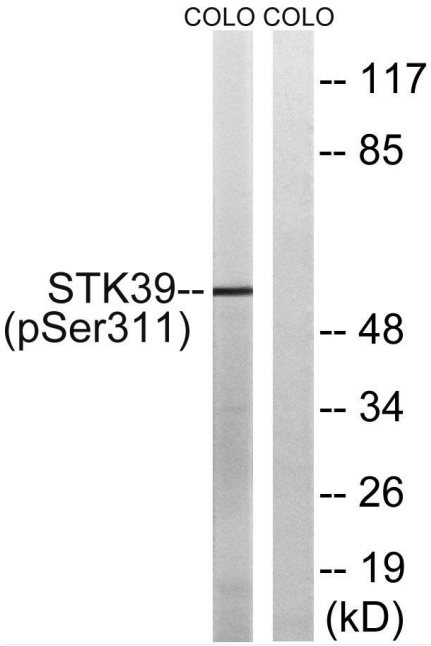
Catalog No	YP-Ab-14502
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	STK39
Protein Name	STE20/SPS1-related proline-alanine-rich protein kinase
Immunogen	The antiserum was produced against synthesized peptide derived from human STK39 around the phosphorylation site of Ser311. AA range:277-326
Specificity	Phospho-SPAK (S311) Polyclonal Antibody detects endogenous levels of SPAK protein only when phosphorylated at S311.
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: 1/5000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	STK39; SPAK; STE20/SPS1-related proline-alanine-rich protein kinase; Ste-20-related kinase; DCHT; Serine/threonine-protein kinase 39
Observed Band	60kD
Cell Pathway	Cytoplasm . Nucleus . Nucleus when caspase-cleaved. .
Tissue Specificity	Predominantly expressed in brain and pancreas followed by heart, lung, kidney, skeletal muscle, liver, placenta and testis.
Function	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.,
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.