

SPAK Rabbit mAb
Catalog # AP76718**Specification****SPAK Rabbit mAb - Product Information**

Application	WB, IHC-P
Primary Accession	Q9UEW8
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	59474

SPAK Rabbit mAb - Additional Information**Gene ID** 27347**Other Names**
STK39**Dilution**
WB~~1/500-1/1000
IHC-P~~N/A**Format**
50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.**Storage**
Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.**SPAK Rabbit mAb - Protein Information****Name** STK39

Function
Effector serine/threonine-protein kinase component of the WNK-SPAK/OSR1 kinase cascade, which is involved in various processes, such as ion transport, response to hypertonic stress and blood pressure (PubMed:<[a href="http://www.uniprot.org/citations/16669787" target="_blank">16669787a href="http://www.uniprot.org/citations/18270262" target="_blank">18270262a href="http://www.uniprot.org/citations/21321328" target="_blank">21321328a href="http://www.uniprot.org/citations/34289367" target="_blank">34289367a href="http://www.uniprot.org/citations/16669787" target="_blank">16669787a href="http://www.uniprot.org/citations/21321328" target="_blank">21321328a href="http://www.uniprot.org/citations/21321328" target="_blank">21321328](http://www.uniprot.org/citations/16669787)

phosphorylation of ion cotransporters SLC12A1/NKCC2, SLC12A2/NKCC1 and SLC12A6/KCC3 downstream of WNK1 and WNK3 kinases (PubMed:12740379, PubMed:16669787, PubMed:21321328).

Phosphorylation of Na-K-Cl cotransporters SLC12A2/NKCC1 and SLC12A2/NKCC1 promote their activation and ion influx; simultaneously, phosphorylation of K-Cl cotransporters SLC12A5/KCC2 and SLC12A6/KCC3 inhibit their activity, blocking ion efflux (PubMed:16669787, PubMed:19665974, PubMed:21321328). Acts as a regulator of NaCl reabsorption in the distal nephron by mediating phosphorylation and activation of the thiazide-sensitive Na-Cl cotransporter SLC12A3/NCC in distal convoluted tubule cells of kidney downstream of WNK4 (PubMed:18270262). Mediates the inhibition of SLC4A4, SLC26A6 as well as CFTR activities (By similarity). Phosphorylates RELT (By similarity).

Cellular Location

Cytoplasm. Nucleus. Note=Nucleus when caspase-cleaved.

Tissue Location

Predominantly expressed in brain and pancreas followed by heart, lung, kidney, skeletal muscle, liver, placenta and testis.

SPAK Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SPAK Rabbit mAb - Images



