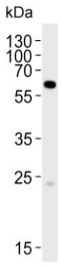
SPAK Antibody / STK39 (F54255)

Catalog No.	Formulation	Size
F54255-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54255-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

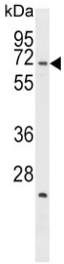
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	SAS precipitation
UniProt	Q9UEW8
Gene ID	27347
Localization	Nuclear, cytoplasmic
Applications	Western blot: 1:1000 Immunohistochemistry (FFPE): 1:50-1:100
Limitations	This SPAK antibody is available for research use only.



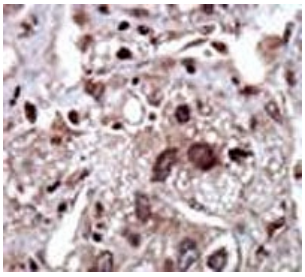
Western blot testing of human HepG2 cell lysate with SPAK antibody. Predicted molecular weight ~60 kDa.



Western blot testing of human 293 cell lysate with SPAK antibody. Predicted molecular weight ~60 kDa.



Western blot testing of human U937 cell lysate with SPAK antibody. Predicted molecular weight ~60 kDa.



IHC testing of FFPE human cancer tissue with SPAK antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.

Description

SPAK is a serine/threonine kinase containing an N-terminal series of proline and alanine repeats (PAPA box), followed by a serine/threonine kinase catalytic domain, a nuclear localization signal, a consensus caspase cleavage recognition motif, and a C-terminal region. Northern blot analysis detects ubiquitous expression, most abundantly in brain and pancreas. SPAK can phosphorylate itself and an exogenous substrate in vitro. SPAK immunoprecipitates from transfected mammalian cells in a complex with another serine/threonine kinase that phosphorylates catalytically inactive SPAK. SPAK activates the p38 MAP kinase pathway in cotransfection assays. Full-length SPAK is expressed in the cytoplasm in transfected cells, while a mutant corresponding to caspase-cleaved STK39 localizes predominantly in the nucleus.

Application Notes

The stated application concentrations are suggested starting points. Titration of the SPAK antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 346-376 from the human protein were used as the immunogen for the SPAK antibody.

Storage

Aliquot the SPAK antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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