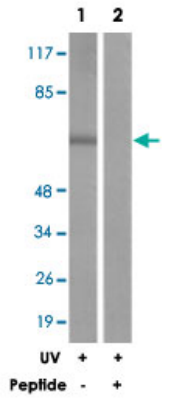
STK4/STK3 polyclonal antibody

Catalog # PAB18249 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of extracts from Jurkat cells, treated with UV (15 mins), using STK4 polyclonal antibody (Cat # PAB18249).
Peptide "+" means "peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of STK4/STK3.
Immunogen	A synthetic peptide corresponding to residues surrounding T183 of human STK4/STK3.
Host	Rabbit
Reactivity	Human, Mouse
Specificity	This antibody is specific to STK4/STK3.
Form	Liquid
Purification	Affinity purification
Concentration	1 mg/mL
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) ELISA (1:5000) The optimal working dilution should be determined by the end user.

Storage Buffer	In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western blot analysis of extracts from Jurkat cells, treated with UV (15 mins), using STK4 polyclonal antibody (Cat # PAB18249).
  Peptide "+" means "peptide blocking".

- Immunohistochemistry

- Enzyme-linked Immunoabsorbent Assay

Gene Info — STK3

Entrez GeneID	6788
Protein Accession#	Q13188
Gene Name	STK3
Gene Alias	FLJ90748, KRS1, MST2
Gene Description	serine/threonine kinase 3 (STE20 homolog, yeast)
Omim ID	605030
Gene Ontology	Hyperlink
Gene Summary	Protein kinase activation is a frequent response of cells to treatment with growth factors, chemical s, heat shock, or apoptosis-inducing agents. This protein kinase activation presumably allows cell s to resist unfavorable environmental conditions. The yeast 'sterile 20' (Ste20) kinase acts upstrea m of the mitogen-activated protein kinase (MAPK) cascade that is activated under a variety of str ess conditions. MST2 was identified as a kinase that is activated by the proapoptotic agents stra urosporine and FAS ligand (MIM 134638) (Taylor et al., 1996 [PubMed 8816758]; Lee et al., 200 1 [PubMed 11278283]).[supplied by OMIM
Other Designations	serine/threonine kinase 3 (Ste20, yeast homolog)

Gene Info — STK4

Entrez GeneID	6789
Protein Accession#	Q13188
Gene Name	STK4
Gene Alias	DKFZp686A2068, KRS2, MST1, YSK3
Gene Description	serine/threonine kinase 4
Omim ID	604965
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a cytoplasmic kinase that is structurally similar to the yeast Ste20p kinase, which acts upstream of the stress-induced mitogen-activated protein kinase cascade. The encoded protein can phosphorylate myelin basic protein and undergoes autophosphorylation. A caspase-cleaved fragment of the encoded protein has been shown to be capable of phosphorylating histone H2B. The particular phosphorylation catalyzed by this protein has been correlated with apoptosis, and it's possible that this protein induces the chromatin condensation observed in this process. [provided by RefSeq
Other Designations	OTTHUMP00000043418|dJ211D12.2 (serine/threonine kinase 4 (MST1, KRS2))|kinase responsive to stress 2|mammalian sterile 20-like 1|yeast Ste20-like

Publication Reference

- Schizosaccharomyces pombe mst2+ encodes a MYST family histone acetyltransferase that negatively regulates telomere silencing.

  Gómez EB, Espinosa JM, Forsburg SL.

  Molecular and Cellular Biology 2005 Oct; 25(20):8887.

- Mapping of MST1 kinase sites of phosphorylation. Activation and autophosphorylation.

  Glantschnig H, Rodan GA, Reszka AA.

  The Journal of Biological Chemistry 2002 Nov; 277(45):42987.

- Caspase-catalyzed cleavage and activation of Mst1 correlates with eosinophil but not neutrophil apoptosis.

  De Souza PM, Kankaanranta H, Michael A, Barnes PJ, Giembycz MA, Lindsay MA.

  Blood 2002 May; 99(9):3432.

Pathway

- MAPK signaling pathway
- MAPK signaling pathway
- Non-small cell lung cancer
- Pathways in cancer

Disease

- Kidney Failure
- Tobacco Use Disorder