Datasheet for ABIN7138786

anti-STK4 antibody (pThr183)

2 Images

Go to Product page

Overview

Quantity:	100 µL
Target:	STK4
Binding Specificity:	pThr183
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This STK4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	Peptide sequence around phosphorylation site of threonine 183 (R-N-T(p)-V-I) derived from Human Mst1/2.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy usi

Target Details

Target:	STK4
Alternative Name:	STK4 (STK4 Products)

Target Details

Background:	Background: Stress-activated, pro-apoptotic kinase which, following caspase-cleavage, enters the nucleus and induces chromatin condensation followed by internucleosomal DNA fragmentation. Key component of the Hippo signaling pathway which plays a pivotal role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. The core of this pathway is composed of a kinase cascade wherein STK3/MST2 and STK4/MST1, in complex with its regulatory protein SAV1, phosphorylates and activates LATS1/2 in complex with its regulatory protein MOB1, which in turn phosphorylates and inactivates YAP1 oncoprotein and WWTR1/TAZ. Phosphorylation of YAP1 by LATS2 inhibits its translocation into the nucleus to regulate cellular genes important for cell proliferation, cell death, and cell migration. STK3/MST2 and STK4/MST1 are required to repress proliferation of mature hepatocytes, to prevent activation of facultative adult liver stem cells (oval cells), and to inhibit tumor formation By similarity. Aliases: Kinase responsive to stress antibody, Krs2 antibody, Mammalian STE20 like protein kinase 1 antibody, Mammalian STE20-like protein kinase 1 antibody, Mammalian sterile 20 like 1 antibody, MST-1 antibody, MST1 antibody, Serine/threonine kinase 4 antibody, Serine/threonine protein kinase Krs 2 antibody, Serine/threonine-protein kinase 4 antibody, Serine/threonine-protein kinase Krs-2 antibody, STE20 like kinase MST1 antibody, STE20-like kinase MST1 antibody, STK4 antibody, STK4_HUMAN antibody, TIIAC antibody, YSK3 antibody
UniProt:	Q13043
Pathways:	Tube Formation

Application Details

Application Notes:	WB:1:500-1:3000, IHC:1:50-1:100,
Restrictions:	For Research Use only

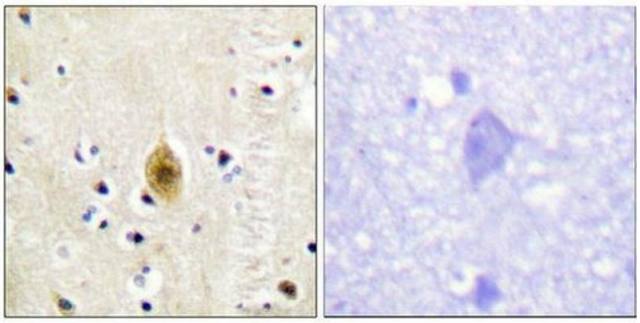
Handling

Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

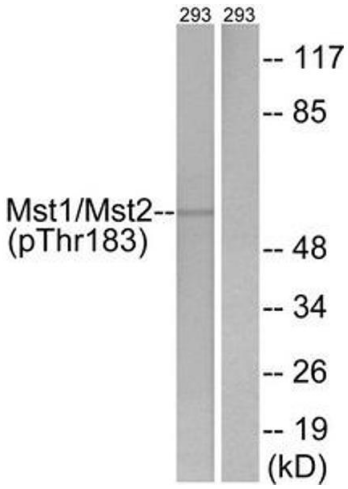
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunohistochemistry

Image 1. Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Mst1/2 (Phospho-Thr183) antibody. The picture on the right is treated with the synthesized peptide.



Western Blotting

Image 2. Western blot analysis of extracts from 293 cells, treated with H2O2 (100uM, 15 mins), using Mst1/2 (Phospho-Thr183) antibody. The lane on the right is treated with the synthesized peptide.