.-online.com antibodies

Datasheet for ABIN7168990 anti-STK3 antibody (AA 323-450)

5 Images



Overview

Quantity:	100 µL
Target:	STK3
Binding Specificity:	AA 323-450
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This STK3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Serine/threonine-protein kinase 3 protein (323-450AA)
Isotype:	lgG
Cross-Reactivity:	Human, Mouse
Purification:	Antigen Affinity Purified

Target Details

Target:	STK3
Alternative Name:	STK3 (STK3 Products)
Background:	Background: Stress-activated, pro-apoptotic kinase which, following caspase-cleavage, enters
	the nucleus and induces chromatin condensation followed by internucleosomal DNA

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN7168990 | 09/09/2023 | Copyright antibodies-online. All rights reserved.

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. Phosphorylates NKX2-1 (By similarity). Phosphorylates NEK2 and plays
a role in centrosome disjunction by regulating the localization of NEK2 to centrosome, and its
ability to phosphorylate CROCC and CEP250. In conjunction with SAV1, activates the
transcriptional activity of ESR1 through the modulation of its phosphorylation. Positively
regulates RAF1 activation via suppression of the inhibitory phosphorylation of RAF1 on $\\$
259 \\\'. Phosphorylates MOBKL1A and RASSF2. Phosphorylates MOBKL1B on \\\'Thr-74 \\\'.
Acts cooperatively with MOBKL1B to activate STK38.
Aliases: 0610042I06Rik antibody, EC 2.7.11.1 antibody, FLJ90748 antibody, KB 1458E12.1
antibody, Kinase responsive to stress 1 antibody, KRS1 antibody, Mammalian STE20 like
protein kinase 2 antibody, Mammalian STE20-like protein kinase 2 antibody, Mammalian sterile
20-like 2 antibody, Mess1 antibody, MST antibody, MST-2 antibody, MST2 antibody, Mst3
antibody, Serine/threonine kinase 3 (STE20 homolog, yeast) antibody, Serine/threonine kinase 3

(Ste20, yeast homolog) antibody, Serine/threonine kinase 3 antibody, Serine/threonine protein kinase 3 antibody, Serine/threonine protein kinase Krs1 antibody, Serine/threonine-protein kinase 3 antibody, Serine/threonine-protein kinase Krs-1 antibody, STE20 like kinase MST2 antibody, STE20-like kinase MST2 antibody, Stk3 antibody, STK3_HUMAN antibody, wu:fc19e11 antibody, zgc:55383 antibody

UniProt:	Q13188
Pathways:	Tube Formation

Application Details

Application Notes:

Recommended dilution: WB:1:500-1:5000, IHC:1:20-1:200, IF:1:50-1:200,

Restrictions:

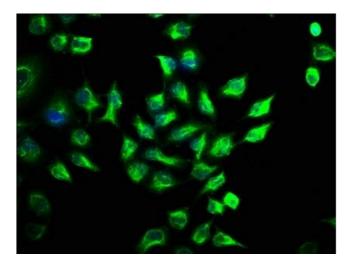
For Research Use only

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN7168990 | 09/09/2023 | Copyright antibodies-online. All rights reserved.

Handling

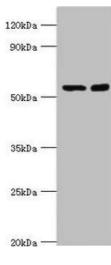
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunofluorescence

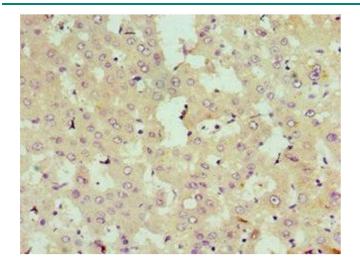
Image 1. Immunofluorescence staining of Hela cells with ABIN7168990 at 1:141, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Western Blotting

Image 2. Western blot All lanes: STK3 antibody at 8 µg/mL Lane 1: Hela whole cell lysate Lane 2: NIH/3T3 whole cell lysate Secondary Goat polyclonal to rabbit IgG at 1/10000 dilution Predicted band size: 57, 60 kDa Observed band size: 57 kDa

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN7168990 | 09/09/2023 | Copyright antibodies-online. All rights reserved.



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human liver tissue using ABIN7168990 at dilution of 1:100

Please check the product details page for more images. Overall 5 images are available for ABIN7168990.