For Research Use Only

CoraLite® Plus 488-conjugated STK3/MST2 Monoclonal antibody

Catalog Number:CL488-66637 Featured Product

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
CL488-66637

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG2741

GenBank Accession Number:
BC010640

GeneID (NCBI):
6788

UNIPROT ID:
Q13188

Full Name:
serine/threonine kinase 3 (STE20 homolog, yeast)

Calculated MW:
491 aa, 56 kDa

Observed MW:
56-63 kDa

Purification Method:
Protein A purification

CloneNo.:
1C11A4

Recommended Dilutions:
IF/ICC: 1:50-1:500
FC (Intra): 0.40 ug per 10^6 cells in a 100 ul suspension

Excitation/Emission maxima wavelengths:
493 nm / 522 nm

Applications

Tested Applications:
IF/ICC, FC (Intra)

Species Specificity:
human, mouse

Positive Controls:

IF/ICC : NIH/3T3 cells,

FC (Intra) : NIH/3T3 cells,

Background Information

The protein encoded by STK3 gene is a key serine/threonine kinase, and its protein product can be cleaved by caspase in the process of apoptosis, and the inhibitory C-terminal part is removed, and the N-terminal part is transferred to the nucleus to form homodimer, which becomes an active kinase and promotes chromatin condensation in the process of apoptosis. STK3 is one of the core components of Hippo signaling pathway, which plays a key role in controlling cell proliferation, apoptosis and tissue growth. In the Hippo signaling pathway, STK3 forms a cascade reaction with STK4, LATS1/2 and other kinases, phosphorylates and activates LATS1/2, and then inhibits transcription coactivators YAP and TAZ, thus controlling cell growth and preventing cancer progression. STK3 and STK4(MST1) are similar in structure and function. They have conserved amino-terminal kinase domains, carboxyl-terminal regulatory domains and interaction domains. The antibody can cross-recognize STK4.

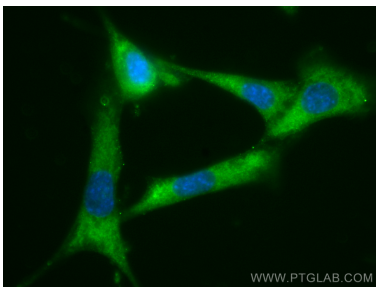
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

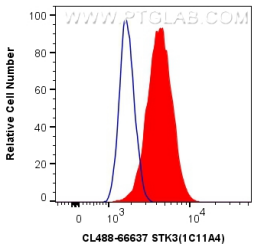
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (-20°C Methanol) fixed NIH/3T3 cells using CoraLite® Plus 488 STK3 antibody (CL488-66637, Clone: 1C11A4) at dilution of 1:200.



1X10^6 NIH/3T3 cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human STK3 (CL488-66637, Clone:1C11A4) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.