Product Name: KO-Validated Serine/Threonine Kinase 3 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVAb00094

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 56.3kDa

Antigen Information

Gene Name	STK3
Alternative Names	STK3; Serine/Threonine Kinase 3; MST2; KRS1; Serine/Threonine Kinase 3 (Ste20, Yeast Homolog); Mammalian STE20-Like Protein Kinase 2; Serine/Threonine-Protein Kinase Krs-1; Serine/Threonine-Protein Kinase 3; STE20-Like Kinase MST2; EC 2.7.11.1; MST-2; Serine/Threonine Kinase 3 (STE20 Homolog, Yeast); Epididymis Secretory Sperm Binding Protein; Hippo (Drosophila) Homolog; Hippo Homolog; KB-1458E12.1; EC 2.7.11
Gene ID	6788.0
SwissProt ID	Q13188
Immunogen	A synthesized peptide derived from human STK3

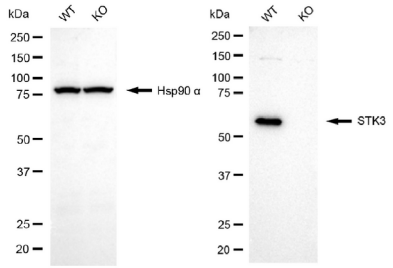
Background

This gene encodes a serine/threonine protein kinase activated by proapoptotic molecules indicating the encoded protein functions as a growth suppressor. Cleavage of the protein product by caspase removes the inhibitory C-terminal portion. The N-terminal portion is transported to the nucleus where it homodimerizes to form the active kinase which promotes the condensation of chromatin during apoptosis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]

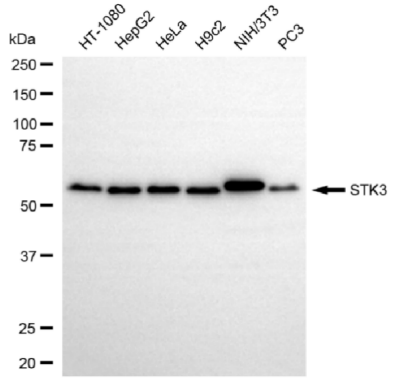
Research Area

Cell Biology,Signal Transduction

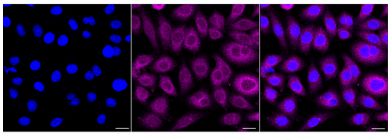
Image Data



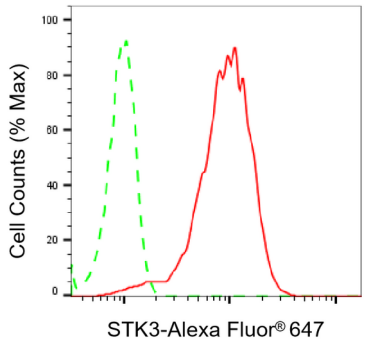
Western blotting analysis using STK3 antibody (KVAb00094). STK3 expression in wild type (WT) and STK3 knockout (KO) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with STK3 antibody (KVAb00094, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using STK3 antibody (KVAb00094). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with STK3 antibody (KVAb00094, 1:5,000) and HRP-conjugated goat anti rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with STK3 antibody (KVAb00094, 1:1,000). Nuclei were stained blue with DAPI; STK3 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of STK3 expression in HepG2 cells using STK3 antibody (KVAb00094, 1:2,000). Green, isotype control; red, STK3.