

[KD Validated] Anti-STK4 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

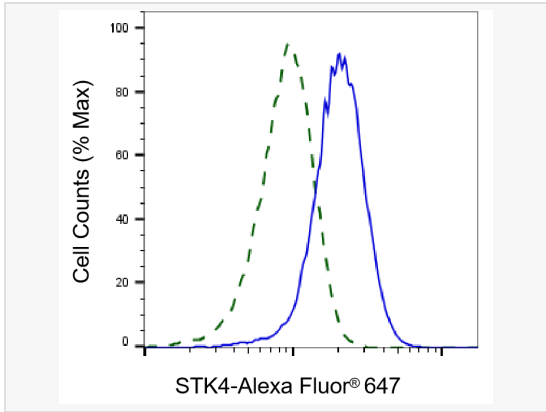
Catalog # R020475

Product Information

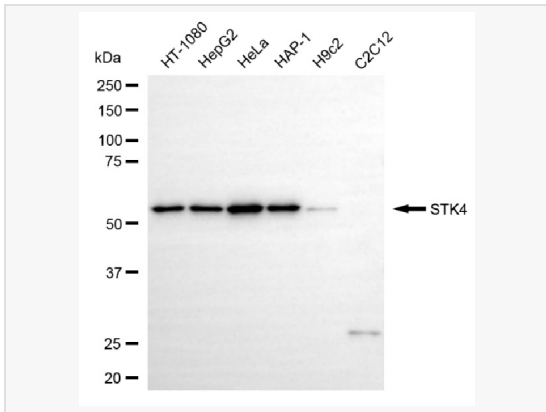
Application	WB, FC
Reactivity	Human, Rat
Dilution	WB 1:1,000~1:5,000; FC 1:100~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	43M50R67
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Serine/threonine-protein kinase 4
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KD Validated] Anti-STK4 Rabbit mAb [43M50R67] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

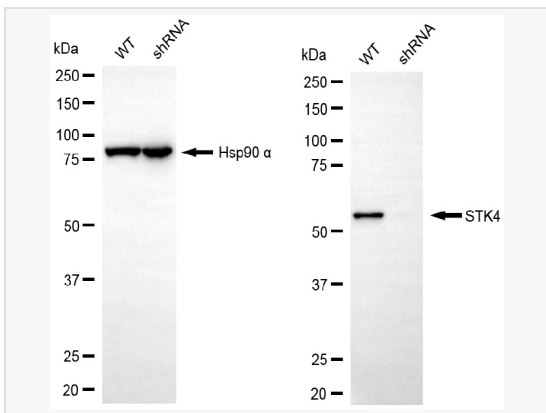
Synonyms	STK4; Serine/Threonine Kinase 4; MST1; KRS2; YSK3; Mammalian STE20-Like Protein Kinase 1; Serine/Threonine-Protein Kinase Krs-2; Serine/Threonine-Protein Kinase 4; Kinase Responsive To Stress 2; Mammalian Sterile 20-Like 1; STE20-Like Kinase MST1; EC 2.7.11.1; Hippo (Drosophila) Homolog; Yeast Ste20-Like; Hippo Homolog; EC 2.7.11; MST-1.
Calculated MW	Calculated MW: 56 kDa; Observed MW: 56 kDa
Uniprot ID	Q13043
Gene ID	6789
Background	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.



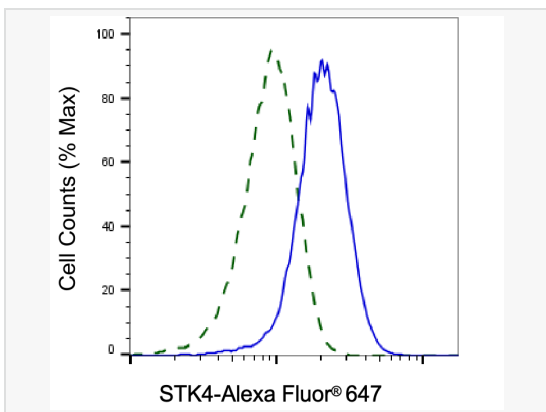
Flow cytometric analysis of STK4 expression in HepG2 cells using STK4 antibody (R020475, 1:2,000). Green, isotype control; red, STK4.



Western blotting analysis using STK4 antibody (R020475). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with STK4 antibody (R020475, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using STK4 antibody (R020475). STK4 expression in wild-type (WT) and STK4 shRNA knockdown (KD) HeLa cells with 20 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with STK4 antibody (R020475, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Validation of STK4 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with STK4 antibody (R020475, 1:2,000) and analyzed using BD flow cytometer.