

Rabbit STK3/MST-2 Polyclonal Antibody | anti-STK3 antibody

Anti-STK3/MST-2 Antibody

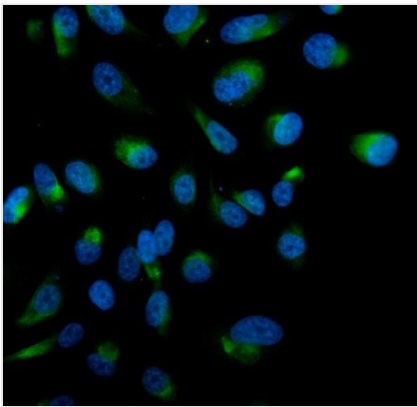
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125642	Rabbit	Human, Monkey	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

STK3/MST-2; Polyclonal Antibody; Anti-STK3/MST-2 Antibody; STK3; KRS1; MST2; Serine/threonine-protein kinase 3; EC 2. 7. 11. 1; Mammalian STE20-like protein kinase 2; MST-2; STE20-like kinase MST2; Serine/threonine-protein kinase Krs-1 [Cleaved into: Serine/threonine-protein kinase 3 36kDa subunit; MST2/N; Serine/threonine-protein kinase 3 20kDa subunit; MST2/C]; serine/threonine kinase 3; anti-STK3 antibody

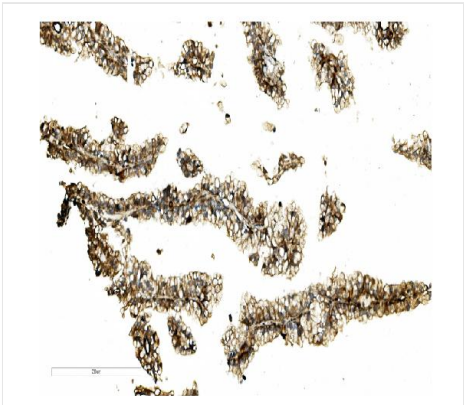
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Monkey
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for STK3/MST-2 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-STK3 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human STK3/MST-2 recombinant protein (Position: E314-D456).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



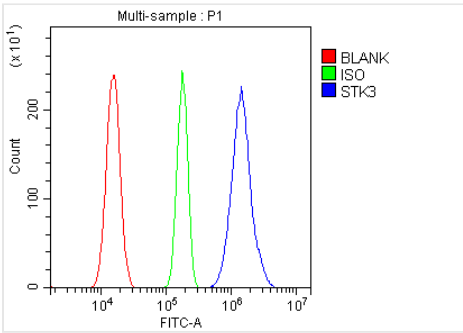
IF (Immunofluorescence)

Figure 4. IF analysis of STK3/MST-2 using anti- STK3/MST-2 antibody (AAA125642).STK3/MST-2 was detected in immunocytochemical section of PC-3 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL rabbit anti- STK3/MST-2 Antibody (AAA125642) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



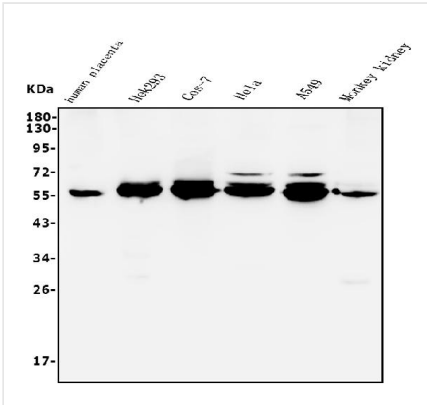
IHC (Immunohistochemistry)

Figure 2. IHC analysis of STK3/MST-2 using anti STK3/MST-2 antibody (AAA125642).STK3/MST-2 was detected in paraffin-embedded section of human renal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-STK3/MST-2 Antibody (AAA125642) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U87 cells using anti-STK3/MST-2 antibody (AAA125642).Overlay histogram showing U87 cells stained with AAA125642 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-STK3/MST-2 Antibody (AAA125642,1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of STK3/MST-2 using anti-STK3/MST-2 antibody (AAA125642).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human placenta tissue lysatesLane 2: human HEK293 whole cell lysatesLane 3: monkey Cos-7 whole cell lysatesLane 4: human Hela whole cell lysatesLane 5: human A549 whole cell lysatesLane 6: monkey kidney tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-STK3/MST-2 antigen affinity purified polyclonal antibody (Catalog # AAA125642) at 0. 25 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for STK3/MST-2 at approximately 56KD. The expected band size for STK3/MST-2 is at 56KD.

ADDITIONAL INFORMATION

Related Product Information for anti-STK3 antibody

Serine/threonine-protein kinase 3 is an enzyme that in humans is encoded by the STK3 gene. 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.

References	1. Creasy, C. L., Chernoff, J. Cloning and characterization of a member of the MST subfamily of Ste20-like kinases. Gene 167: 303-306, 1995. 2. Du, X., Wen, J., Wang, Y., Karmaus, P. W. F., Khatamian, A., Tan, H., Li, Y., Guy, C., Nguyen, T. -L. M., Dhungana, Y., Neale, G., Peng, J., Yu, J., Chi, H. Hippo/Mst signalling couples metabolic state and immune function of CD8-alpha+ dendritic cells. Nature 558: 141-145, 2018. 3. Harvey, K. F., Pflieger, C. M., Hariharan, I. K. The Drosophila Mst ortholog, hippo, restricts growth and cell proliferation and promotes apoptosis. Cell 114: 457-467, 2003.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	372622373
NCBI GeneID	6788
NCBI Accession #	NP_001243241.1
NCBI GenBank Nucleotide #	NM_001256312.1
UniProt Accession #	Q13188; Q15445; Q15801; Q96FM6; A8K722; B3KYA7
Molecular Weight	59,462 Da
NCBI Official Full Name	serine/threonine-protein kinase 3 isoform 2
NCBI Official Synonym Full Names	serine/threonine kinase 3
NCBI Official Symbol	STK3
NCBI Official Synonym Symbols	KRS1; MST2
NCBI Protein Information	serine/threonine-protein kinase 3
UniProt Protein Name	Serine/threonine-protein kinase 3
UniProt Gene Name	STK3
UniProt Synonym Gene Names	KRS1; MST2; MST-2; MST2/N; MST2/C

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/stk3-mst-2-antibody-direct-elisa-flow-cytometry-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/125642>