

**bs-4635R****[ Primary Antibody ]****phospho-MST1 (Thr183) Rabbit pAb****Bioss**  
**ANTIBODIES**

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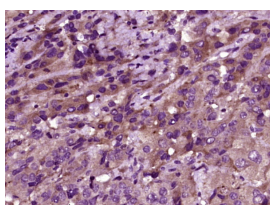
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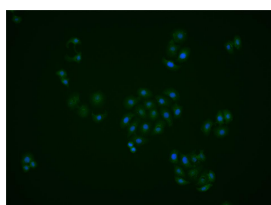
400-901-9800

**— DATASHEET —**

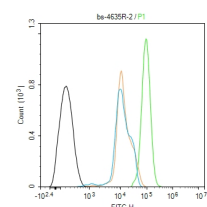
<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> IHC-P (1:100-500) <b>IHC-F</b> (1:100-500) <b>IF</b> (1:100-500) <b>Flow-Cyt</b> (2ug/Test) <b>ICC/IF</b> (1:25)  <b>Reactivity:</b> Human (predicted: Mouse, Rat, Rabbit, Cow, Chicken, Horse)  <b>Predicted MW.:</b> 56 kDa  <b>Subcellular Location:</b> Cytoplasm ,Nucleus
<b>Clonality:</b> Polyclonal		
<b>GeneID:</b> 6789	<b>SWISS:</b> Q13043	
<b>Target:</b> MST1 (Thr183)		
<b>Immunogen:</b> KLH conjugated Synthesised phosphopeptide derived from human Mst1 around the phosphorylation site of Thr183: RN(p-T)VI.		
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
<b>Background:</b> 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. [provided by RefSeq, Jul 2008]		

**— VALIDATION IMAGES —**

Paraformaldehyde-fixed, paraffin embedded (human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MST1 (Thr183)) Polyclonal Antibody, Unconjugated (bs-4635R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



HepG2 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Phospho-MST1 (Thr183)) polyclonal Antibody, Unconjugated (bs-4635R) 1:25, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Blank control (black line) :HepG2. Primary Antibody (green line): Rabbit Anti-Phospho-MST1 (Thr183) antibody (bs-4635R) Dilution:2ug/Test; Secondary Antibody (white blue line) : Goat anti-rabbit IgG-FITC Dilution: 0.5ug/Test. Isotype control (orange line) : Normal Rabbit IgG Protocol The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

**— SELECTED CITATIONS —**

- **[IF=11.685]** Hui Wang, et al. MST1 mediates neuronal loss and cognitive deficits: A novel therapeutic target for Alzheimer's disease. PROG NEUROBIOL. 2022 Jul;214:102280 WB,IF ;Mouse. 35525373

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=5.5]** Li Lin. et al. GPR137 inactivates Hippo signaling to promote gastric cancer cell malignancy. BIOL DIRECT. 2024 Dec;19(1):1-16 WB,CoIP ;Human. 38163861
- **[IF=6.1]** Cui Dongqing. et al. MST1, a novel therapeutic target for Alzheimer's disease, regulates mitochondrial homeostasis by mediating mitochondrial DNA transcription and the PI3K-Akt-ROS pathway. J TRANSL MED. 2024 Dec;22(1):1-30 IF,IHC ;Mouse. 39578795
- **[IF=4.7]** Tianwei Dong. et al.Cannabidiol Ameliorates Doxorubicin-Induced Myocardial Injury via Activating Hippo Pathway.DRUG DESIGN DEVELOPMENT AND THERAPY.2025 Jan 24:19:569-583. Western blot ;Rat, mouse. 39876987
- **[IF=4.174]** Zhao, Boyuan. et al. Shear stress regulates the migration of suspended breast cancer cells by nuclear lamina protein A/C and large tumor suppressor through yes-associated protein. Hum Cell. 2022 Jan;;1-16 WB ;Human. 34984662