bs-7052R **[Primary Antibody]**

Myosin light chain (phospho S20) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 10398 **SWISS:** P24844

Target: Myosin light chain (phospho S20)

Immunogen: KLH conjugated synthesised phosphopeptide derived from human MYL9 around the phosphorylation site of Ser20: AT(p-S)NV.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 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.

Background: Myosin, a structural component of muscle, consists of two heavy chains and four light chains. The protein encoded by this gene is a myosin light chain that may regulate muscle contraction by modulating the ATPase activity of myosin heads. The encoded protein binds calcium and is activated by myosin light chain kinase. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

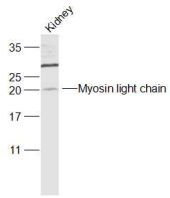
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse (predicted: Rat, Rabbit, Pig, Sheep, Cow, Dog)

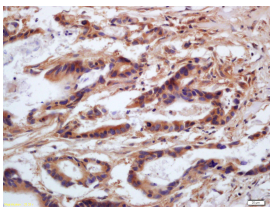
Predicted MW.: 20 kDa

Subcellular Location: Cytoskeleton ,Cell membrane

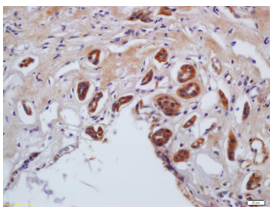
VALIDATION IMAGES



Sample: Kidney (Mouse) Lysate at 40 ug Primary: Anti-Myosin light chain (phospho S20) (bs-7052R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 20 kD Observed band size: 20 kD



Tissue/cell: human gastric carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-phospho-MLC(Ser20) Polyclonal Antibody, Unconjugated(bs-7052R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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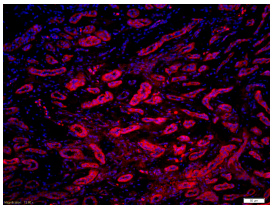

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Unconjugated(bs-7052R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated (bs-0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C. DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei

SELECTED CITATIONS

- **[IF=12.2]** Zi-Yan Hu. et al. AHR activation relieves deoxynivalenol-induced disruption of porcine intestinal epithelial barrier functions. J HAZARD MATER. 2024 Dec;480:136095 WB ;Porcine. 39395393
- **[IF=8.713]** Zhao-Bo Luo. et al. Fecal transplant from myostatin deletion pigs positively impacts the gut-muscle axis. ELIFE. 2023; 12: e81858 WB ;Mouse. 37039469
- **[IF=5.396]** Luqing Song. et al. Chlorogenic acid improves the intestinal barrier by relieving endoplasmic reticulum stress and inhibiting ROCK/MLCK signaling pathways.. Food Funct. 2022 Feb;: WB ;Human. 10.1039/D1FO02662C
- **[IF=3.82]** Ikemura, S., et al. "Preventive effects of the anti-vasospasm agent via the regulation of the Rho-kinase pathway on the development of steroid-induced osteonecrosis in rabbits." Bone (2013). WB ;="Rabbit". 23313282
- **[IF=3.56]** Hoj, Jacob P., et al. "Cellular contractility changes are sufficient to drive epithelial scattering." Experimental Cell Research (2014). WB ;="Dog". 24780819