bs-2178R **[Primary Antibody]**

SM22 Alpha Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 6876 **SWISS:** Q01995

Target: SM22 Alpha

Immunogen: KLH conjugated synthetic peptide derived from human SM22 Alpha: 101-201/201.

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: The protein encoded by this gene is a transformation and shape-change sensitive actin cross-linking/gelling protein found in fibroblasts and smooth muscle. Its expression is down-regulated in many cell lines, and this down-regulation may be an early and sensitive marker for the onset of transformation. A functional role of this protein is unclear. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

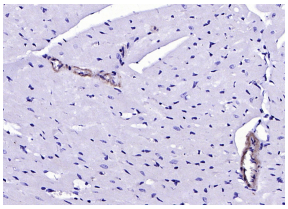
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/test)
ICC/IF (1:100-500)

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

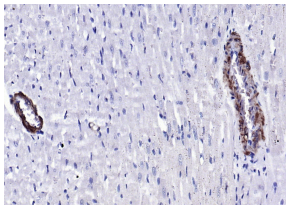
Predicted MW.: 22 kDa

Subcellular Location: Cytoplasm

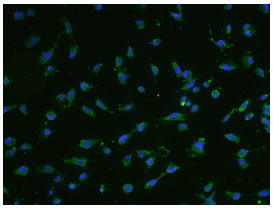
VALIDATION IMAGES



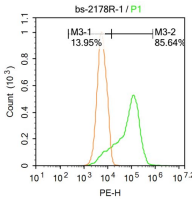
Paraformaldehyde-fixed, paraffin embedded (mouse heart); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SM22 Alpha) Polyclonal Antibody, Unconjugated (bs-2178R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat heart); 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 (SM22 Alpha) Polyclonal Antibody, Unconjugated (bs-2178R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Tissue/cell: U251 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 (SM22 Alpha) Polyclonal Antibody, Unconjugated (bs-2178R) 1:200, 90 minutes at 37°C; followed by a conjugated secondary antibody (bs-0295G-FITC) at 37°C for 90 minutes, DAPI (5ug/ml, blue, C-0033) was used to stain the cell nuclei.



Blank control: Raji. Primary Antibody (green line): Rabbit Anti-SM22 Alpha antibody (bs-2178R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-PE Dilution: 1µg /test. Protocol The cells were fixed

with 4% PFA (10min at room temperature)and then permeabilized with PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at 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=8.2]** Yang Shuang. et al. Myeloid-derived growth factor suppresses VSMC dedifferentiation and attenuates postinjury neointimal formation in rats by activating S1PR2 and its downstream signaling. ACTA PHARMACOL SIN. 2023 Sep;:1-14 IF,WB ;Rat. 37726422
- **[IF=4.996]** Xi, Yue. et al. Low expression of IGFBP4 and TAGLN accelerate the poor overall survival of osteosarcoma. SCI REP-UK. 2022 Jun;12(1):1-20 IF ;Human, Mouse. 35665757
- **[IF=4.315]** Yuping Shi. et al. CKAP4 contributes to the progression of vascular calcification (VC) in chronic kidney disease (CKD) by modulating YAP phosphorylation and MMP2 expression. Cell Signal. 2022 Jan;:110270 WB ;Human. 35108641
- **[IF=4.222]** Yi Song. et al. LncRNA SENCR overexpression attenuated the proliferation, migration and phenotypic switching of vascular smooth muscle cells in aortic dissection via the miR-206/myocardin axis. Nutr Metab Cardiovas. 2022 Mar;: IHC ;Human. 35351345
- **[IF=2.37]** Zhang, Mingming. et al. Both high glucose and phosphate overload promote senescence-associated calcification of vascular muscle cells. INT UROL NEPHROL. Int Urol Nephrol. 2022 Apr;:1-13 IF ;Mouse. 35396645