bs-2082R **[Primary Antibody]**

phospho-Caldesmon (Ser789) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 800 **SWISS:** Q05682

Target: Caldesmon (Ser789)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human Caldesmon around the phosphorylation site of Ser789: VT(p-S)PT.

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: This gene encodes a calmodulin- and actin-binding protein that plays an essential role in the regulation of smooth muscle and nonmuscle contraction. The conserved domain of this protein possesses the binding activities to Ca(2+)-calmodulin, actin, tropomyosin, myosin, and phospholipids. This protein is a potent inhibitor of the actin-tropomyosin activated myosin MgATPase, and serves as a mediating factor for Ca(2+)-dependent inhibition of smooth muscle contraction. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Jul 2008].

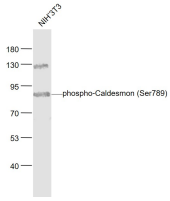
Applications: **WB** (1:500-2000)

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

Predicted MW.: 93 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Sample: NIH/3T3(Mouse) Cell Lysate at 30 ug Primary: Anti- phospho-Caldesmon (Ser789) (bs-2082R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 93 kD Observed band size: 86 kD

SELECTED CITATIONS

- **[IF=0.939]** Prayitnaningsih et al. Neuropathy optic glaucomatosa induced by systemic hypertension through activation endothelin-1 signaling pathway in central retinal artery in rats. (2016) Int.J.Ophthalmol. 9:1568-1577 IF ;Rat. 27990358