

**bs-2082R****[ Primary Antibody ]****phospho-Caldesmon (Ser789) Rabbit pAb****BioSS**  
**ANTIBODIES**

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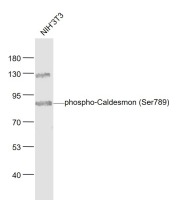
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**— DATASHEET —**

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> WB (1:500-2000)
<b>Clonality:</b> Polyclonal		<b>Reactivity:</b> Mouse (predicted: Human, Rat, Rabbit, Cow, Dog, Horse)
<b>GeneID:</b> 800	<b>SWISS:</b> Q05682	<b>Predicted MW.:</b> 93 kDa
<b>Target:</b> Caldesmon (Ser789)		<b>Subcellular Location:</b> Cytoplasm
<b>Immunogen:</b> KLH conjugated Synthesised phosphopeptide derived from human Caldesmon around the phosphorylation site of Ser789: VT(p-S)PT.		
<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> 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].		

**— 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