

## Caldesmon Rabbit monoclonal antibody

Catalog: BS9915M

Host: Rabbit

Reactivity: Human, Mouse, Rat

### Background:

Caldesmon, Filamin 1, Nebulin and Villin are differentially expressed and regulated Actin binding proteins. Both muscular and non-muscular forms of Caldesmon have been identified and each has been shown to bind to Actin as well as to calmodulin and Myosin. Alternative splicing of the gene encoding Caldesmon results in five isoforms. Muscular Caldesmon (isoform 1), also designated high molecular weight Caldesmon or H-Caldesmon (H-CAD), is expressed predominantly on thin filaments in smooth muscle. Non-muscular Caldesmon (isoforms 2-5), also designated low molecular weight Caldesmon or L-Caldesmon (L-CAD), is widely expressed in non-muscle tissues and cells.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

70-80 kDa non-muscle

120-150 kDa smooth muscle

### Swiss-Prot:

Q05682

### Purification&Purity:

Protein A affinity purified

### Applications:

WB: 1:1000-1:2000

IHC/ICC/IF: 1:50-1:200

FC: 1:50-1:100

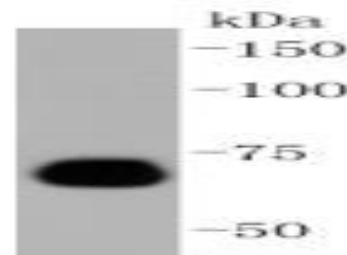
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

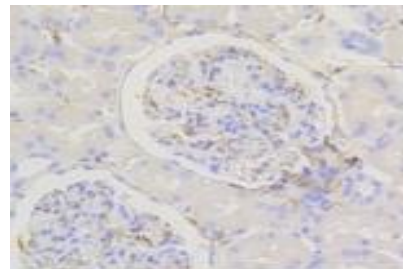
This antibody detects endogenous levels of Caldesmon and does not cross-react with related proteins.

### DATA:

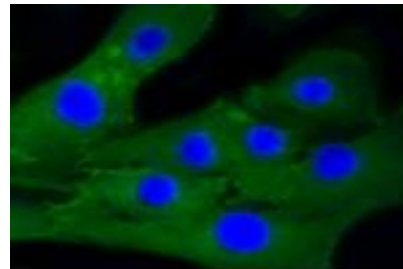


Western blot (WB) analysis of Caldesmon Rabbit mAb at 1:1000 dilution

Lane1:NIH/3T3 whole cell lysate



Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Caldesmon antibody. Counter stained with hematoxylin.



ICC staining Caldesmon in C2C12 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilized with 0.25% Triton X-100/PBS.

### Note:

For research use only, not for use in diagnostic procedure.

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