

IHCAb™ Caldesmon pan mouse mAb (BGT125)

Cat #: B-IMW6826

Size: 100 µL

Storage: Store at -20°C. 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.

Product Information

Applications/Dilution: IHC-p 1:100-500, WB 1:200-1000, IF 1:100-500

Isotype/Source: Mouse, Monoclonal/IgG2a, Kappa

Specificity: The antibody can recognize human h-caldesmon and l-caldesmon protein. In western blotting , the antibody labels a 93KDa band.

Subcellular Location: Cytoplasm, cytoskeleton . Cytoplasm, myofibril . Cytoplasm, cytoskeleton, stress fiber . On thin filaments in smooth muscle and on stress fibers in fibroblasts (nonmuscle)

Expression: High-molecular-weight caldesmon (isoform 1) is predominantly expressed in smooth muscles, whereas low-molecular-weight caldesmon (isoforms 2, 3, 4 and 5) are widely distributed in non-muscle tissues and cells. Not expressed in skeletal muscle or heart

Formulation: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.165% sodium azide

Storage: Store at -15°C to -25°C

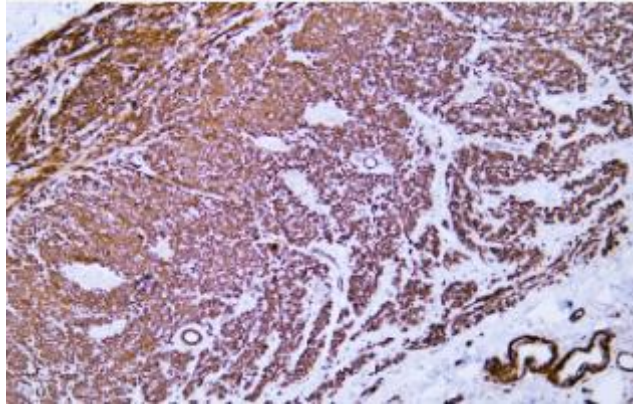


Fig.1. Human appendix tissue was stained with anti-Caldesmon antibody

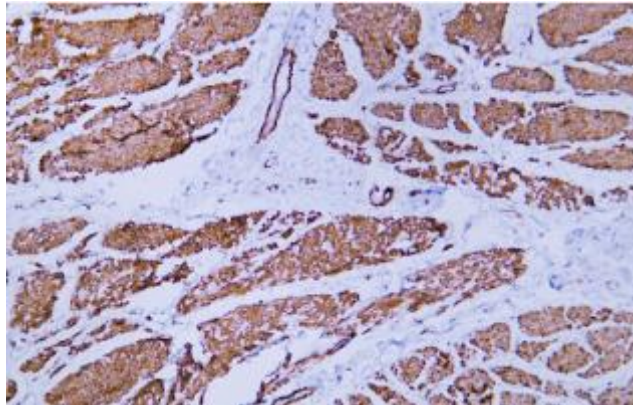


Fig.2. Human smooth muscle tissue was stained with anti-Caldesmon antibody

Note:

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.