

Mouse Anti-Caldesmon, HMW (h-Caldesmon) [h-CALD]: MC0634, MC0634RTU7

Intended Use: For Research Use Only

Description: Recognizes a protein of 150kDa, which is identified as the high molecular weight variant of Caldesmon. Two closely related variants of human caldesmon have been identified which are different in their electrophoretic mobility and cellular distribution. The h-caldesmon variant (120-150kDa) is predominantly expressed in smooth muscle whereas l-caldesmon (70-80kDa) is found in non- muscle tissue and cells. Neither of the two variants has been detected in skeletal muscle. This MAb recognizes only the 150kDa variant (h-caldesmon) in Western blots of human aortic media extracts and is unreactive with fibroblast extracts from cultivated human foreskin. Caldesmon is a developmentally regulated protein involved in smooth muscle and non-muscle contraction.

Specifications:

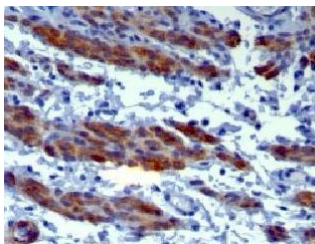
Clone: h-CALD
Source: Mouse
Isotype: IgG1k
Reactivity: Human
Localization: Cytoplasm
Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
Storage: Store at 2°- 8°C
Applications: IHC, Flow Cyt., ICC/IF
Package:

Description	Catalog No.	Size
Caldesmon, HMW (h-Caldesmon) Concentrated	MC0634	1 ml
Caldesmon, HMW (h-Caldesmon) Prediluted	MC0634RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Uterus, leiomyoma
Concentrated Dilution: 100-300
Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp: 30-60 minutes @ RT
Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human uterus stained with anti-Caldesmon HMW using DAB

References:

1. Phenotypic changes of human smooth muscle cells during development: Late expression of heavy caldesmon and calponin. Frid MG, et al. Dev Biol 153:185, 1992.
2. Value of PAX8, PAX2, claudin-4, and h-caldesmon immunostaining in distinguishing peritoneal epithelioid mesotheliomas from serous carcinomas. Ordóñez NG. Mod Pathol. 2013 Apr;26(4):553-62.
3. Immunohistochemical characteristics of atypical polypoid adenomyoma with special reference to h-caldesmon. Horita A, et al. Int J Gynecol Pathol. Jan;30(1):64-70, 2011.
4. Specificity and sensitivity of differentiation antigens in superficial soft tissue tumors: comparison of SMA, calponin, H-caldesmon, C-kit, PLAP and HPL. Durak H, et al. Bratisl Lek Listy. 111(8):432-8, 2010.

Doc. 100-MC0634
Rev. B