Medaysis

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

Intended Use: For Research Use Only

Description: Caldesmon was identified as a Ca2+/Calmodulin-binding protein with molecular weight of 120-150kDa high molecular weight Caldesmon (H-Caldesmon) and 70-80kDa low molecular weight (L-Caldesmon). H-Caldesmon (isoform 1) which is an actin, myosin, tropomyosin, and calmodulin-binding protein, is expressed in differentiated contractile smooth muscle cells (SMC) while L-Caldesmon (isoforms 2, 3, 4 and 5) is most abundant in non-muscle tissue and cells. Neither of the two variants has been detected in skeletal muscle or heart. As such, H-Caldesmon is a specific marker for SMC and could aid in the differential diagnosis of tumors with a SMC component (e.g. leiomyosarcoma) from other tumors with smooth muscle-like differentiation e.g. myofibroblastic tumors. L-Caldesmon may play an important function in motile processes such as secretion and organelle movement. This antibody recognizes only the 150kDa variant H-Caldesmon, labels smooth muscle and tumors of smooth muscle.

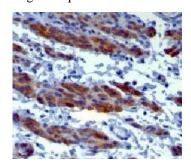
Specifications:

Decomintion		Catalog No.	Simo
Package:			
Applications:	IHC, Flow Cyt., ICC/IF, WB		
Storage:	Store at 2°- 8°C		
Formulation:	Antibody in PBS pH7.4, containin	g BSA and $\leq 0.09\%$ s	sodium azide (NaN3)
Localization:	Cytoplasm		
Immunogen:	Crude human uterus extract		
Reactivity:	Human		
Isotype:	IgG1k		
Source:	Mouse		
Clone:	h-CALD		
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Description	Catalog No.	Size	
Caldesmon, HMW (h-Caldesmon) Concentrated	MC0634	1 ml	
Caldesmon, HMW (h-Caldesmon) Prediluted	MC0634RTU7	7 ml	

IHC Procedure*:

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Positive Control Tissue:	Smooth muscle, uterus, leiomyoma
Concentrated Dilution:	50-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes 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 e	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.

Doc. 100-MC0634 Rev. B