



Mouse monoclonal antibody to human Caldesmon (smooth) [CD-7]: IgG

Catalogue No.:	M-974-100
Description:	Caldesmon is an actin and myosin binding protein. It plays a major role in the regulation of smooth muscle and non-muscle contractile events. At least 5 isoforms are known from alternate splicing. High molecular weight h-caldesmon (isoform 1) of 120-150 kDa is predominantly expressed in smooth muscles. Lower molecular weight caldesmon l-caldesmon (isoforms 2,3,4 and 5) of 61-70 kDa is more abundant in non-muscle tissues and cells. This antibody reacts specifically with h-caldesmon.
Batch No.:	See product label
Unit size:	100 ug
Antigen:	Human uterus smooth muscle extract
Clone:	CD-7
Other Names:	CAD; CDM; CALD1; CALD1_HUMAN; h-CD;
Accession:	Q05682 CALD1_HUMAN
Produced in:	Mouse
Purity:	IgG
Applications:	Immunohistochemistry (IHC) and Western Blotting (WB). A concentration of 1.0-2.0 ug/mL is recommended for WB. Human caldesmon has a predicted length of 793 residues and a MW of 93 kDa. A concentration of 2.0-4.0 ug/mL is recommended to detect caldesmon in formalin fixed and paraffin embedded tissues. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
Specificity:	The specificity of this antibody has been confirmed by WB and IHC against the antigen.
Cross-reactivity:	Human; mouse; rat
Form:	Lyophilized from 1.2% sodium acetate, 2mg BSA, 0.01mg NaN3
Reconstitution:	Reconstitute in 1 mL of PBS (pH 7.4) to achieve an antibody concentration of 100 ug/mL. Centrifuge to remove any insoluble material.
Storage:	At least 12 months after purchase at 2-8C (lyophilized formulations). After reconstitution, aliquot and store at -20C for a higher stability. Avoid freeze-thaw cycles.
Expiry Date:	12 months after purchase.

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