

**36-1820: Monoclonal Antibody to Caldesmon, HMW (h-Caldesmon) (Smooth Muscle Marker)(Clone : h-CALD)**

|                                |                            |
|--------------------------------|----------------------------|
| <b>Clonality :</b>             | Monoclonal                 |
| <b>Clone Name :</b>            | h-CALD                     |
| <b>Application :</b>           | WB,FACS,IF,IHC             |
| <b>Reactivity :</b>            | Human                      |
| <b>Gene :</b>                  | CALD1                      |
| <b>Gene ID :</b>               | 800                        |
| <b>Uniprot ID :</b>            | Q05682                     |
| <b>Format :</b>                | Purified                   |
| <b>Alternative Name :</b>      | CALD1,CAD,CDM              |
| <b>Isotype :</b>               | Mouse IgG1, kappa          |
| <b>Immunogen Information :</b> | Crude human uterus extract |

**Description**

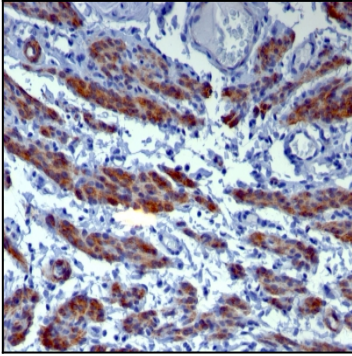
Recognizes a protein of 150kDa, which is identified as the high molecular weight variant of Caldesmon. Two closely related variants of human caldesmon have been identified which are different in their electrophoretic mobility and cellular distribution. The h-caldesmon variant (120-150kDa) is predominantly 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.

**Product Info**

|                            |                                                                                                                               |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Amount :</b>            | 100 µg                                                                                                                        |
| <b>Purification :</b>      | Affinity Chromatography                                                                                                       |
| <b>Content :</b>           | 100 µg in 500 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.                               |
| <b>Storage condition :</b> | Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles. |

**Application Note**

Western Blot (2-4ug/ml); Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);



Formalin-fixed, paraffin-embedded human Uterus stained with Caldesmon Monoclonal Antibody (h-CALD).