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## 36-1823: Monoclonal Antibody to Caldesmon, HMW (h-Caldesmon) (Smooth Muscle Marker)(CALD1/820 + h-CALD)

Clonality: Monoclonal

Clone Name: CALD1/820 + h-CALD

Application: IHC
Reactivity: Human
Gene: CALD1
Gene ID: 800
Uniprot ID: Q05682
Format: Purified

Alternative Name : CALD1,CAD,CDM

**Isotype:** Mouse IgG1, kappa + Mouse IgG1, kappa

Immunogen Information: Recombinant full-length human CALD1 protein (CALD1/820); Crude human uterus extract (h-

nogen information: CALD)

## **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**

**Amount :** 100 μg

**Purification:** Affinity Chromatography

Content: 100 μg in 500 μl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly

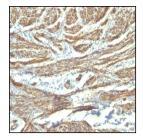
toxic.

**Storage condition :** 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**

Immunohistochemistry (Formalin-fixed) (0.25-0.5ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 1mM EDTA, pH 7.5-8.5, 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 (CALD1/820 + h-CALD).