

## Caldesmon, HMW (h-Caldesmon) (Smooth Muscle Marker) Antibody

Mouse Monoclonal Antibody [Clone CALD1/820 + h-CALD]

Catalog No	Format	Size
800-MSM3-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
800-MSM3-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
800-MSM3-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

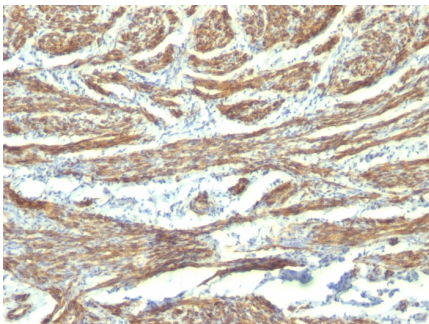
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

### Product Details

<b>Clone</b>	CALD1/820 + h-CALD
<b>Gene Name</b>	CALD1
<b>Immunogen</b>	Recombinant full-length human CALD1 protein (CALD1/820); Crude human uterus extract (h-CALD)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1 / Kappa
<b>Mol. Weight of Antigen</b>	150kDa
<b>Cellular Localization</b>	Cytoplasm, Cytoskeleton, Myofibril, Stress fiber
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Blood vessels in all tissues, smooth muscle or leiomyosarcoma., Uterus

\*Optimal dilution for a specific application should be determined.

### Product Images for Caldesmon, HMW (h-Caldesmon) (Smooth Muscle Marker) Antibody



Formalin-fixed, paraffin-embedded human Uterus stained with Caldesmon Monoclonal Antibody (CALD1/820 + h-CALD).

### Specificity & Comments

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 MAbs 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.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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### Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Research Areas

Cardiovascular