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

Mouse Monoclonal Antibody [Clone rCALD1/7266]

Catalog No	Format	Size
800-MSM16-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
800-MSM16-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
800-MSM16-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

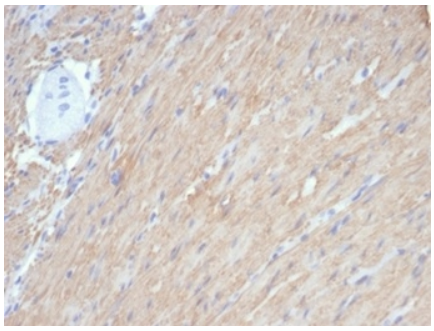
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

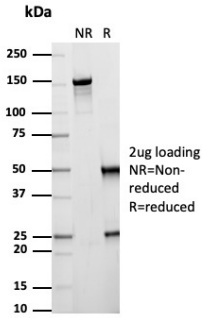
Clone	rCALD1/7266
Immunogen	Recombinant human full-length CALD1 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	93.23kDa
Cellular Localization	Cytoplasm, Cytoskeleton, Myofibril, Stress fiber
Species Reactivity	Human
Positive Control	Blood vessels in all tissues, smooth muscle or leiomyosarcoma. Skeletal muscle.

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

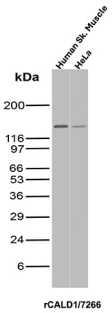
Product Images for Recombinant Caldesmon, HMW (h-Caldesmon) (Smooth Muscle Marker) Antibody



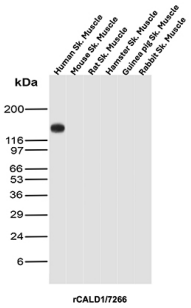
Formalin-fixed, paraffin-embedded human smooth muscle stained with h-CALD Recombinant Mouse Monoclonal Antibody (rCALD1/7266). HIER: Tris/EDTA, pH9.0, 45min. 2 °: HRP-polymer, 30min. DAB, 5min.



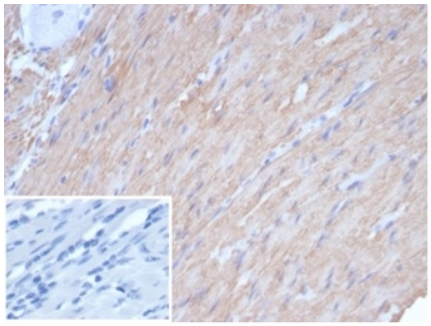
SDS-PAGE Analysis of Purified Caldesmon Recombinant Mouse Monoclonal Antibody (rCALD1/7266). Confirmation of Purity and Integrity of Antibody.



Western blot analysis of Human Skeletal Muscle and HeLa lysates using h-CALD Mouse Recombinant Monoclonal Antibody (rCALD1/7266).



Western blot analysis of Skeletal Muscle lysates of different species using h-CALD Mouse Recombinant Monoclonal Antibody (rCALD1/7266).



Formalin-fixed, paraffin-embedded human smooth muscle stained with h-CALD Recombinant Mouse Monoclonal Antibody (rCALD1/7266). Inset: PBS instead of primary antibody; secondary only negative control.

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 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.

Supplied As

200ug/ml of Ab produced in a mammalian-based expression system. 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.

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.