Product Datasheet

Caldesmon/CALD1 Antibody (CALD1/820 + h-CALD) [Alexa Fluor® 700]

NBP2-47819AF700

Unit Size: 0.1 ml

Store at 4C in the dark.

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Publications: 1

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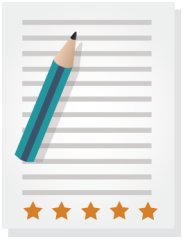
Updated 10/23/2024 v.20.1



NBP2-47819AF700

Caldesmon/CALD1 Antibody (CALD1/820 + h-CALD) [Alexa Fluor® 700]

Product Information

Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C in the dark.
Clonality	Monoclonal
Clone	CALD1/820 + h-CALD
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa/IgG1 Kappa
Conjugate	Alexa Fluor 700
Purity	Protein A or G purified
Buffer	50mM Sodium Borate

Product Description

Host	Mouse
Gene ID	800
Gene Symbol	CALD1
Species	Human
Marker	Smooth Muscle Marker
Specificity/Sensitivity	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 monoclonal antibody 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.
Immunogen	Recombinant full-length human Caldesmon/CALD1 protein (Caldesmon/CALD1/820); Crude human uterus extract (h-CALD) (Uniprot: Q05682)

Product Application Details

Applications	Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Immunohistochemistry, Immunohistochemistry-Paraffin
Application Notes	Optimal dilution of this antibody should be experimentally determined.

Publications

Shin HS, Thakore A, Tada Y et al. Angiogenic stem cell delivery platform to augment post-infarction neovasculature and reverse ventricular remodeling Scientific Reports 2022-10-20 [PMID: 36266453]

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Products Related to NBP2-47819AF700

H00000800-P01-10ug	Recombinant Human Caldesmon/CALD1 GST (N-Term) Protein
NBP2-74969	Human Caldesmon/CALD1 ELISA Kit (Colorimetric)
MAB4470	Myosin Heavy Chain Antibody (MF20) [Unconjugated]
NBP2-22203	ERK1 Antibody (1E5) - BSA Free

Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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