Caldesmon, HMW Ab-1 (Clone h-CALD)
Mouse Monoclonal Antibody
Cat. #MS-1169-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml) (Purified Ab with BSA and Azide)
Cat. #MS-1169-P1ABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml) (Purified Ab without BSA and Azide)
Cat. #MS-1169-R7 (7.0ml) (Ready-to-Use for Immunohistochemistry)
Cat. #MS-1169-RQ (12.0ml) (Ready-to-Use for Immunohistochemistry)

Please note this data sheet has been changed effective February 03, 2017

Description: Caldesmon is a developmentally regulated protein involved in smooth muscle and non-muscle contraction. Two closely related variants of human caldesmon have been identified which differ in their eletrophoretic 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.

Comments: Ab-1 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.

Mol. Wt. of Antigen: 150kDa (h-caldesmon)

Epitope: Not determined

Species Reactivity: Human. Others not tested.

Clone Designation: h-CALD

Ig Isotype / Light Chain: IgG1 / k

Immunogen: Crude human uterus extract.

Applications and Suggested Dilutions:
- Immunohistochemistry (Formalin/paraffin)
  Use Ab at 1:200-1:400 for 20 min at RT using UltraVision LP Detection Systems

- Use Ab at 1:200 for 20 min at RT using UltraVision Quanto Detection Systems
  * [Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10mM citrate buffer, pH 6.0, (Lab Vision Cat. #AP-9003), for 10-20 min followed by cooling at RT for 20 min.]

The optimal dilution for a specific application should be determined by the investigator.

Positive Control: Uterus

Cellular Localization: Cytoplasmic

Storage and Stability: Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

Material Safety Data:
This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

For Research Use Only

Key References:

Limitations and Warranty:
Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. Lab Vision is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

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