## Sigma-Aldrich®

Lab & Production Materials



**Cell Marque™ Tissue Diagnostics** 

h-Caldesmon (hHCD)
Mouse Monoclonal Primary Antibody

Caldesmon is a protein that facilitates the regulation of cellular contraction through complexing with calmodulin, tropomyosin, and actin. Its high molecular weight isoform (h-caldesmon) has been identified to have restricted expression in visceral and vascular smooth muscle cells. In particular, strong expression of h-caldesmon has been observed in non-neoplastic uterine myometrium while being entirely absent in the endometrial layer.1 In spindle cell tumor pathology, overlapping immunohistochemical staining profiles between smooth muscle cells and myofibroblastic cells has not allowed for reliable identification of true smooth muscle tumors. Immunohistochemical detection of h-caldesmon has been demonstrated to aid in the distinguishing smooth muscle tumors, such as leiomyoma and leiomyosarcoma from myofibroblastic lesions, such as inflammatory myofibroblastic tumors and fibromatoses.2



- 1. Nucci, MR, et al. h-Caldesmon expression effectively distinguishes endometrial stromal tumors from uterine smooth muscle tumors. Am J Surg Pathol. 2001; 25(4):455-463.
- Ceballos, KM, et al. Is anti-h-caldesmon useful for distinguishing smooth muscle and myofibroblastic tumors? An immunohistochemical study. Am J Clin Pathol. 2000; 114(5):746-753

## **Intended Use:**

h-Caldesmon (hHCD) Mouse Monoclonal Antibody is intended for laboratory use in the detection of the h-Caldesmon protein in formalin-fixed, paraffin-embedded tissue stained in qualitative immunohistochemistry (IHC) testing. This product is not a stand-alone diagnostic, and cannot be used for diagnosis, treatment, prevention, or mitigation of disease.

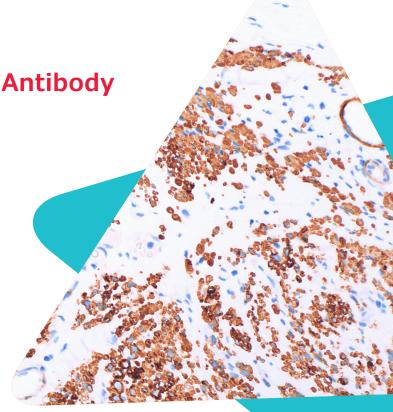
## **Product Information:**

Visualization: Cytoplasmic

Controls: Stomach, Smooth Muscle, Bladder, Colon, Leiomyoma

Dilution Range: 1:50-1:100

Associated Specialty: Soft Tissue Pathology

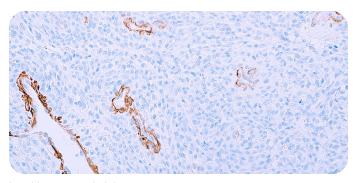


h-Caldesmon on leiomyosarcoma.

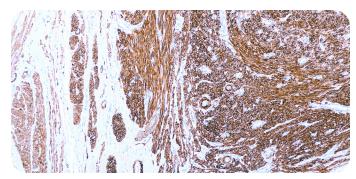
## **Ordering Information**

| Description                   | Cat No. |
|-------------------------------|---------|
| 0.1 mL concentrate            | 451M-14 |
| 0.5 mL concentrate            | 451M-15 |
| 1.0 mL concentrate            | 451M-16 |
| 1.0 mL predilute ready-to-use | 451M-17 |
| 7.0 mL predilute ready-to-use | 451M-18 |
|                               |         |





h-Caldesmon on rhabdomyosarcoma.



h-Caldesmon on leiomyosarcoma.

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