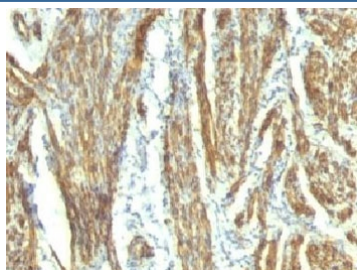


## CAD Antibody Cocktail / CALD1 / Caldesmon (HMW) [clone CALD1/820 + h-CALD] (V2943)

| Catalog No.    | Formulation   | Size   |
|----------------|---|--------|
| V2943-100UG    | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide                      | 100 ug |
| V2943-20UG     | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide                      | 20 ug  |
| V2943SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free  | 100 ug |
| V2943IHC-7ML   | Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only* | 7 ml   |

### Bulk quote request

|                    |  |
|--------------------|--|
| Availability       | 1-3 business days  |
| Species Reactivity | Human  |
| Format             | Purified   |
| Host               | Mouse  |
| Clonality          | Monoclonal (mouse origin)                                      |
| Isotype            | Mouse IgG1, kappa  |
| Clone Name         | CALD1/820 + h-CALD   |
| Purity             | Protein G affinity chromatography                              |
| UniProt            | Q05682   |
| Localization       | Cytoplasmic  |
| Applications       | Immunohistochemistry (FFPE) : 0.25-0.5ug/ml for 30 min at RT   |
| Limitations        | This CAD antibody cocktail is available for research use only. |



IHC: Formalin-fixed, paraffin-embedded human uterus stained with CAD antibody (CALD1/820 + h-CALD).

## Description

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. Caldesmon is a developmentally regulated protein involved in smooth muscle and non-muscle contraction.

## Application Notes

Optimal dilution of the CAD antibody cocktail should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 10-20 min followed by cooling at RT for 20 min.
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

## Immunogen

Recombinant full-length human protein (CALD1/820) and crude human uterus extract (h-CALD) were used as the immunogen for the CAD antibody cocktail.

## Storage

Store the CAD antibody cocktail at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).