

**DATASHEET**

**Calponin 1 Mouse Monoclonal Antibody(C2193)**

CAT. NO. AMA01805

**KEY FEATURES**

|               |  |               |              |
|---------------|--|---------------|--------------|
| Target        | Calponin 1   | Source / Host | Mouse        |
| Reactivity    | Human  | Clonality     | Monoclonal   |
| Applications  | IHC  | Conjugation   | Unconjugated |
| Form / Buffer | Mouse IgG. Liquid in PBS containing 50% glycerol, 0.2% BSA and 0.01% sodium azide. | Storage       | at-20°C      |

**BACKGROUND**

Thin filament-associated protein that is implicated in the regulation and modulation of smooth muscle contraction. It is capable of binding to actin, calmodulin and tropomyosin. The interaction of calponin with actin inhibits the actomyosin Mg-ATPase activity .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

|     |               |
|-----|---------------|
| IHC | 1:100 - 1:300 |
|-----|---------------|

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

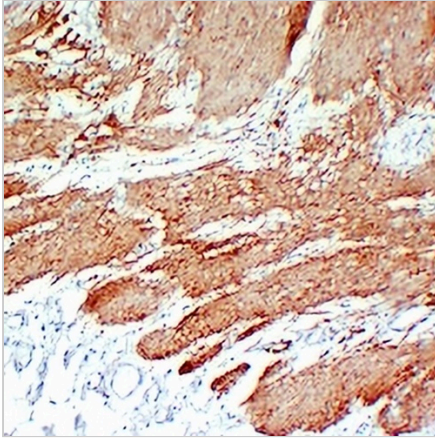
|                   |  |
|-------------------|--|
| Description       | Mouse monoclonal antibody to Calponin 1  |
| Specificity       | Recognizes endogenous levels of Calponin 1 protein.  |
| Antibody Type     | Primary antibody   |
| Immunogen         | KLH-conjugated synthetic peptide encompassing a sequence within human Calponin 1. The exact sequence is proprietary. |
| Purification      | The antibody was purified by immunogen affinity chromatography.  |
| Form/Buffer       | Mouse IgG. Liquid in PBS containing 50% glycerol, 0.2% BSA and 0.01% sodium azide.                                   |
| Alternative Names | Calponin-1; Basic calponin; Calponin H1 smooth muscle  |
| Gene Symbol       | CNN1   |
| Entrez Gene       | 1264(Human)  |
| SwissProt         | P51911(Human)  |

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

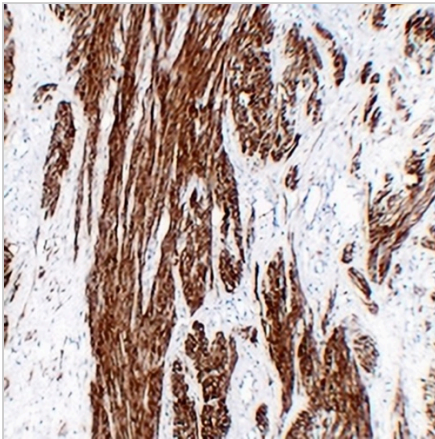
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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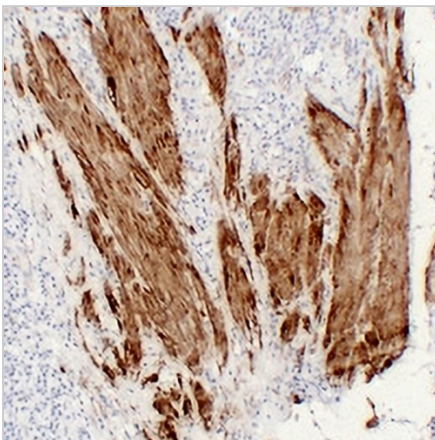
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**DATA**

Immunohistochemical analysis of Calponin 1 staining in human colon formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



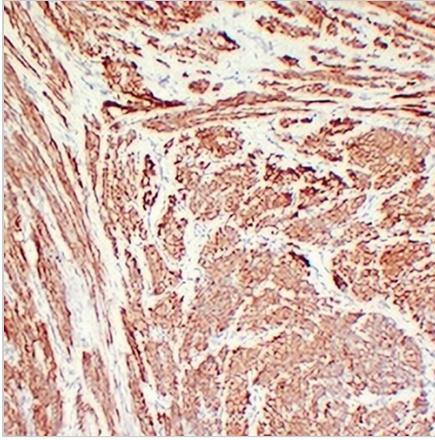
Immunohistochemical analysis of Calponin 1 staining in human fibroid formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



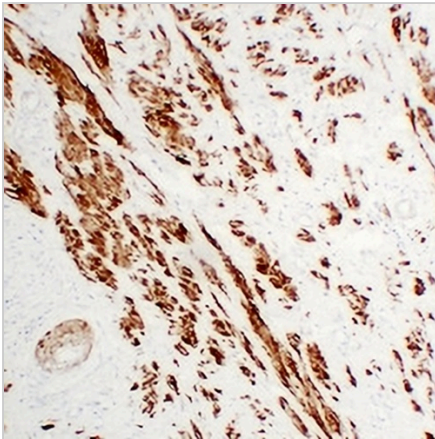
Immunohistochemical analysis of Calponin 1 staining in human laryngeal squamous cell carcinoma formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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**DATA (CONTINUED)**

Immunohistochemical analysis of Calponin 1 staining in human leiomyoma formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunohistochemical analysis of Calponin 1 staining in human cervix squamous carcinoma formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.