

## DATASHEET

# Calponin 1 Rabbit Monoclonal Antibody(C655)

CAT. NO. AMA00267

### KEY FEATURES

Target	Calponin 1	Source / Host	Rabbit
Reactivity	Human	Clonality	Monoclonal
Applications	WB, IHC	Conjugation	Unconjugated
Form / Buffer	Liquid in PBS, pH 7.4, containing 50% glycerol, 0.05% 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.

WB	1:500 - 1:1000
IHC	1:100 - 1:500

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

### PRODUCT OVERVIEW

Description	Recombinant rabbit monoclonal antibody to Calponin 1
Specificity	Recognizes endogenous levels of Calponin 1 protein
Antibody Type	Primary antibody, Recombinant
Immunogen	Recombinant fusion protein of human Calponin 1. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 33 kD; Observed: 35 kD
Form/Buffer	Liquid in PBS, pH 7.4, containing 50% glycerol, 0.05% 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.

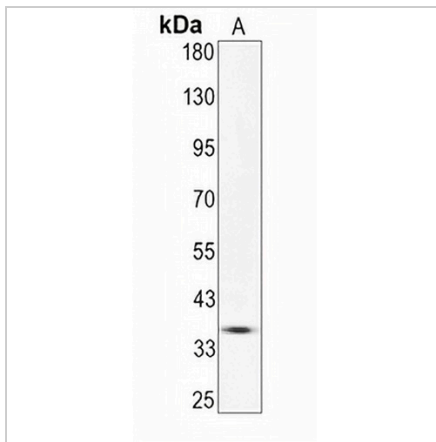
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

**DATASHEET**

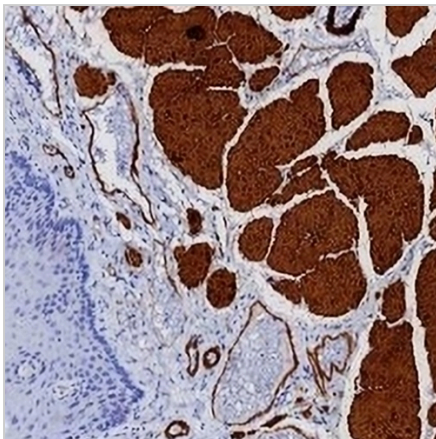
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**DATA**



Western blot analysis of Calponin 1 expression in A2780 (A) whole cell lysates. (Predicted band size: 33 kD; Observed band size: 35 kD)



Immunohistochemical analysis of Calponin 1 staining in human esophagus 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.