# Product Datasheet

## Calponin 1 Antibody (SPM169) [DyLight 550]
## NBP2-47713R

Unit Size: 0.1 ml

Store at 4C in the dark.

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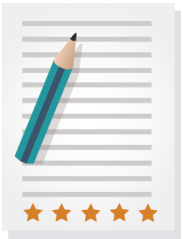

# NBP2-47713R

Calponin 1 Antibody (SPM169) [DyLight 550]

## Product Information

| | |
|---|---|
| **Unit Size** | 0.1 ml |
| **Concentration** | Please see the vial label for concentration. If unlisted please contact technical services. |
| **Storage** | Store at 4C in the dark. |
| **Clonality** | Monoclonal |
| **Clone** | SPM169 |
| **Preservative** | 0.05% Sodium Azide |
| **Isotype** | IgG1 Kappa |
| **Conjugate** | DyLight 550 |
| **Purity** | Protein A or G purified |
| **Buffer** | 50mM Sodium Borate |

## Product Description

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|---|---|
| **Description** | This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet. |
| **Host** | Mouse |
| **Gene ID** | 1264 |
| **Gene Symbol** | CNN1 |
| **Species** | Human, Rat |
| **Marker** | Smooth Muscle Marker |
| **Specificity/Sensitivity** | Multiple isoelectric variants of calponin have been identified, however only two molecular weight isoforms exist; a 34kDa form and a 29kDa form. Expression of the 29kDa form, I-calponin, is primarily restricted to muscle of the urogenital tract, whereas the higher molecular weight variant has been demonstrated in vascular and visceral smooth muscle. In Western blotting, this monoclonal antibody reacts with only the 34kDa form of calponin in extracts of human aortic medial smooth muscle and is unreactive with fibroblast extracts of cultivated human foreskin. Calponin is a calmodulin, F-actin and tropomyosin binding protein, which is thought to be involved in the regulation of smooth muscle contraction. Calponin expression is restricted to smooth muscle cells and has been shown to be a marker of the differentiated (contractile) phenotype of developing smooth muscle. |
| **Immunogen** | Crude human uterus extract |
| **Notes** | DyLight (R) is a trademark of Thermo Fisher Scientific Inc. and its subsidiaries. |

## Product Application Details

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|---|---|
| **Applications** | Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready, Immunofluorescence |
| **Recommended Dilutions** | Flow Cytometry, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Immunofluorescence, CyTOF-ready |
| **Application Notes** | Optimal dilution of this antibody should be experimentally determined. |

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## Products Related to NBP2-47713R

| | |
|---|---|
| NBP1-43319R | Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1) [DyLight 550] |
| NBP1-98945-100ug | Recombinant Human Calponin 1 His Protein |
| 1129-ER-050 | ErbB2/Her2 [Unconjugated] |
| NBL1-09314 | Calponin 1 Overexpression Lysate |

**Limitations**
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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