

# Product Datasheet

## Calponin 1 Antibody (SPM169) [CoraFluor™ 1] NBP2-47713CL1

Unit Size: 0.1 ml

Store at 4C in the dark. Do not freeze.

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**NBP2-47713CL1**

Calponin 1 Antibody (SPM169) [CoraFluor™ 1]

| 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. Do not freeze.  |
| Clonality               | Monoclonal   |
| Clone                   | SPM169   |
| Preservative            | No Preservative  |
| Isotype                 | IgG1 Kappa   |
| Conjugate               | CoraFluor 1  |
| Purity                  | Protein A or G purified  |
| Buffer                  | PBS  |
| Product Description     |  |
| Description             | <p>CoraFluor(TM) 1 is a high performance terbium-based TR-FRET (Time-Resolved Fluorescence Resonance Energy Transfer) or TRF (Time-Resolved Fluorescence) donor for high throughput assay development. CoraFluor(TM) 1 absorbs UV light at approximately 340 nm, and emits at approximately 490 nm, 545 nm, 585 nm and 620 nm. It is compatible with common acceptor dyes that absorb at the emission wavelengths of CoraFluor(TM) 1. CoraFluor(TM) 1 can be used for the development of robust and scalable TR-FRET binding assays such as target engagement, ternary complex, protein-protein interaction and protein quantification assays.</p> <p><a href="#">CoraFluor(TM) 1, amine reactive</a></p> <p><a href="#">CoraFluor(TM) 1, thiol reactive</a></p> <p>For more information, please see our <a href="#">CoraFluor(TM) TR-FRET technology flyer</a>.</p>   |
| 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   |



|                                    |   |
|------------------------------------|---|
| <b>Notes</b>                       | CoraFluor (TM) is a trademark of Bio-Techne Corp. Sold for research purposes only under agreement from Massachusetts General Hospital. US patent 2022/0025254 |
| <b>Product Application Details</b> |   |
| <b>Applications</b>                | Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, CyTOF-ready, Immunofluorescence                  |
| <b>Recommended Dilutions</b>       | Flow Cytometry, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin, Immunofluorescence, CyTOF-ready                  |
| <b>Application Notes</b>           | Optimal dilution of this antibody should be experimentally determined.  |





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### **Products Related to NBP2-47713CL1**

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|                  |  |
|------------------|--|
| NBP1-98945-100ug | Recombinant Human Calponin 1 His Protein |
| 1129-ER-050      | ErbB2/Her2 [Unconjugated]                |
| NBL1-09314       | Calponin 1 Overexpression Lysate         |
| AF3628           | CD31/PECAM-1 Antibody [Unconjugated]     |

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### **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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