

Product Datasheet

Calponin 1 Antibody (CNN1/832) [Alexa Fluor® 488] NBP2-47757AF488

Unit Size: 0.1 ml

Store at 4C in the dark.

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NBP2-47757AF488

Calponin 1 Antibody (CNN1/832) [Alexa Fluor® 488]

| 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 | CNN1/832 |
| Preservative | 0.05% Sodium Azide |
| Isotype | IgG1 Kappa |
| Conjugate | Alexa Fluor 488 |
| Purity | Protein A or G purified |
| Buffer | 50mM Sodium Borate |
| Product Description | |
| 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 | Recombinant full-length human Calponin 1 protein (Uniprot: P51911) |



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| Product Application Details | |
|------------------------------------|---|
| 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. |



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP2-47757AF488

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|------------------|---|
| IC002G | Mouse IgG1 Isotype Control (11711) [Alexa Fluor® 488] |
| 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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