Product Datasheet

Profilin 1 Antibody
NB200-162

Unit Size: 0.1 ml

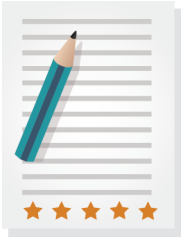
Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

www.novusbio.com technical@novusbio.com

Publications: 6

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB200-162

Updated 10/10/2019 v.20.1



NB200-162

Profilin 1 Antibody

Product Information	
Unit Size	0.1 ml
Concentration	0.1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS and 30% Glycerol

Product Description	
Host	Rabbit
Gene ID	5216
Gene Symbol	PFN1
Species	Human, Mouse, Rat, Porcine
Reactivity Notes	human, porcine, mouse, rat, and marsupial profilin
Specificity/Sensitivity	NB200-162 is specific for profilin I protein but also reacts with profilin II.
Immunogen	Porcine and human platelet Profilin 1
Notes	This antibody is also supplied with Human platelet protein (500 ug at 5mg/ml) in SDS sample buffer. Use 5 ul (25 ug) per lane for Western blotting of tricine gels (13% acrylamide)38 or 15% Laemmli gels.

Product Application Details	
Applications	Western Blot
Recommended Dilutions	Western Blot 0.1-0.2 ug/ml
Application Notes	A band should be seen at ~12-15 kDa, in Western blotting. Use tricine gels (13% acrylamide) or 15% Laemmli gels. **The given dilutions refer to the analysis of mammalian cells and tissues with intermediate levels of profilin expression.

Publications

Scotto di Carlo F, Russo S, Muyas F et al. Profilin 1 deficiency drives mitotic defects and impairs genome stability bioRxiv 2022-02-01 [PMID: 36599901] (ICC/IF, WB, Mouse, Human)

Stoeckelhuber M, Scherer EQ, Janssen KP, Slotta-Huspenina J, Loeffelbein DJ, Rohleder NH, Nieberler M, Hasler R, Kesting MR. The human submandibular gland: immunohistochemical analysis of SNAREs and cytoskeletal proteins. J Histochem Cytochem;60(2):110-20. 2012-02-01 [PMID: 22131313]

Evans, N J, Walker, J W. (2006) Endothelin-1 Mobilizes Profilin-1-Bound PIP2 in Cardiac Muscle, 231, 882-887. [PMID: 16741017]

Hauser et al. Megakaryocyte hyperplasia and enhanced agonist-induced platelet activation in vasodilator-stimulated phosphoprotein knockout mice. Proc Natl Acad Sci U S A 96(14):8120-5. 1999-07-06 [PMID: 10393958]

Giesemann et al. A role for polyproline motifs in the spinal muscular atrophy protein SMN. Profilins bind to and colocalize with smn in nuclear gems. J Biol Chem;274(53):37908-14. 1999-12-31 [PMID: 10608857]

Salazar R, Bell SE, Davis GE. Coordinate induction of the actin cytoskeletal regulatory proteins gelsolin, vasodilator-stimulated phosphoprotein, and profilin during capillary morphogenesis in vitro. Exp Cell Res 249(1):22-32. 1999-05-25 [PMID: 10328950]

Procedures

Western Blot Protocol for Profilin 1 Antibody (NB200-162)
Western Blot Protocol:

1. Perform SDS-PAGE (4-12%) on samples to be analyzed, loading 30 ug of total protein per lane.

2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.

3. Stain the blot using ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.

4. Rinse the blot in TBS for approximately 5 minutes.

5. Block the membrane using 5% non-fat dry milk and 1% BSA in TBS for 1 hour.

6. Dilute the rabbit anti-profilin primary antibody (NB 200-162) in blocking buffer and incubate 2 hours at room temperature.

7. Wash the membrane in water for 5 minutes and apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.

8. Wash the blot in TBS containing 0.05-0.1% Tween-20 for 10-20 minutes.

9. Wash the blot in type I water for an additional 10-20 minutes (this step can be repeated as required to reduce background).

10. Apply the detection reagent of choice in accordance with the manufacturers instructions (Amersham's ECL is the standard reagent used at Novus Biologicals).

Note: Tween-20 can be added to the blocking buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.

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

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NB200-162

Earn gift cards/discounts by submitting a publication using this product: www.novusbio.com/publications