

# Product Datasheet

## beta-Actin [p Tyr53] Antibody

### NBP3-23323

Unit Size: 0.1 ml

Store at -20C.

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**NBP3-23323**

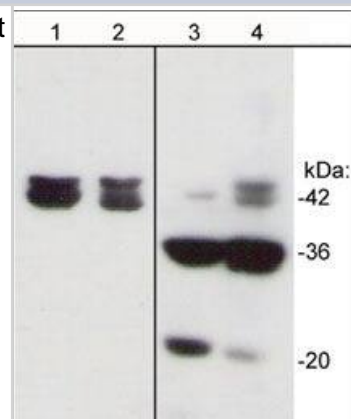
beta-Actin [p Tyr53] Antibody

Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS, 1 mg/ml BSA and 50% glycerol
Target Molecular Weight	42 kDa
Product Description	
Description	Stable for at least 1 year at -20°C.
Host	Rabbit
Gene ID	60
Gene Symbol	ACTB
Species	Human, Mouse, Rat, Chicken
Specificity/Sensitivity	This antibody detects a 42 kDa protein corresponding to the molecular mass of Actin on SDS-PAGE immunoblots of pervanadate treated human C2C12 and SYF cSrc transformed cells, but not in control cells. In addition, this antibody either detects actin cleavage products at 36 and 20 kDa, or cross-reacts with unidentified proteins at these molecular weights in C2C12 cells.
Immunogen	Phospho-Actin (Tyr-53) synthetic peptide (coupled to KLH) corresponding to amino acid residues around tyrosine 53 of human beta-Actin. This sequence is identical to similar regions in all four alpha-actins, as well as in gamma-actin, and is well conserved in actins from most eukaryotic species. [UniProt# P60709]
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1:1000, Immunocytochemistry/ Immunofluorescence 1:50

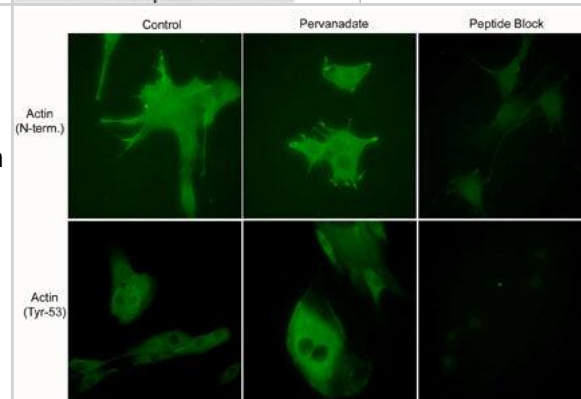


## Images

Western Blot: beta-Actin [p Tyr53] Antibody [NBP3-23323] - Western blot analysis of mouse C2C12 cells untreated (lanes 1 & 3), or treated with pervanadate (1 mM) for 30 min (lanes 2 & 4). The blot was probed with anti-Actin (N-terminal) antibody (lanes 1 & 2) or anti-Actin (Tyr-53) antibody (lanes 3 & 4).



Immunocytochemistry/Immunofluorescence: beta-Actin [p Tyr53] Antibody [NBP3-23323] - Immunocytochemical labeling using anti-Actin (N-terminal) and anti-Actin (Tyr-53) polyclonal antibodies in C2C12 cells control (left) or treated with pervanadate (1 mM) for 30 min (middle). The cells were fixed in paraformaldehyde and permeabilized in acetone. Both antibodies were used in the presence of blocking peptide: Actin (N-terminal) peptide or phospho-Actin (Tyr-53) peptide, respectively (right).





### **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 NBP3-23323**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB600-503PEP	beta-Actin Antibody Blocking Peptide

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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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