

# Product Datasheet

## pan Actin Antibody (A2E1-R)

### NBP3-32712

Unit Size: 100 ul

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

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**NBP3-32712**

pan Actin Antibody (A2E1-R)

Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	A2E1-R
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS (pH7.4), 0.1% BSA and 40% Glycerol
Target Molecular Weight	42 kDa

Product Description	
Description	Novus Biologicals Mouse pan Actin Antibody (A2E1-R) (NBP3-32712) is a recombinant monoclonal antibody validated for use in IHC, WB and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	58
Gene Symbol	ACTA1
Species	Human, Mouse, Rat
Immunogen	Synthetic peptide corresponding to N terminal of Human Alpha actin (smooth muscle, skeletal muscle, cardiac muscle). (Uniprot: P68133)

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry, Immunocytochemistry/Immunofluorescence 1:100, Immunohistochemistry-Paraffin 1:10000



## Images

Western Blot: pan Actin Antibody (A2E1-R) [NBP3-32712] - Western blot analysis of pan Actin on different lysates with Mouse anti-pan Actin antibody (NBP3-32712) at 1/1,000 dilution.

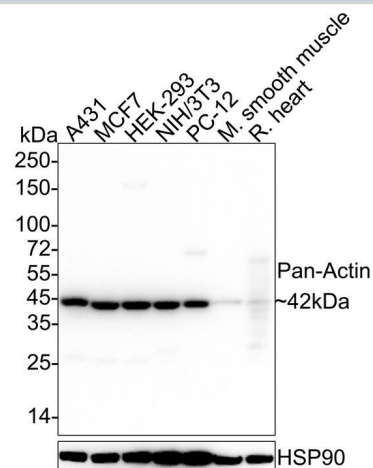
Lane 1: A431 cell lysate (20 ug/Lane)  
 Lane 2: MCF7 cell lysate (20 ug/Lane)  
 Lane 3: HEK-293 cell lysate (20 ug/Lane)  
 Lane 4: NIH/3T3 cell lysate (20 ug/Lane)  
 Lane 5: PC-12 cell lysate (20 ug/Lane)  
 Lane 6: Mouse smooth muscle tissue lysate (40 ug/Lane)  
 Lane 7: Rat heart tissue lysate (40 ug/Lane)

Predicted band size: 42 kDa  
 Observed band size: 42 kDa

Exposure time: 30 seconds;

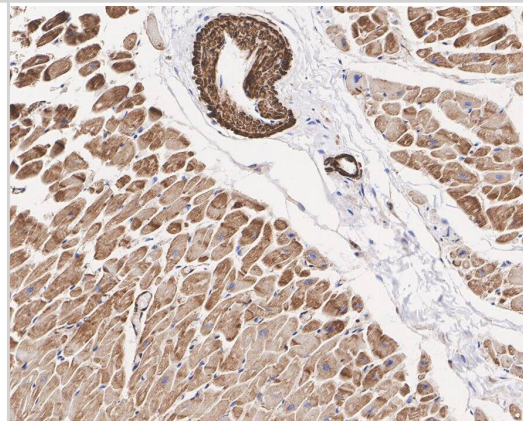
4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (NBP3-32712) at 1/1,000 dilution was used in 5% NFDm/TBST at 4 overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody at 1/50,000 dilution was used for 1 hour at room temperature.



Immunohistochemistry: pan Actin Antibody (A2E1-R) [NBP3-32712] - Immunohistochemical analysis of paraffin-embedded human heart tissue with Mouse anti-pan Actin antibody (NBP3-32712) at 1/10,000 dilution.

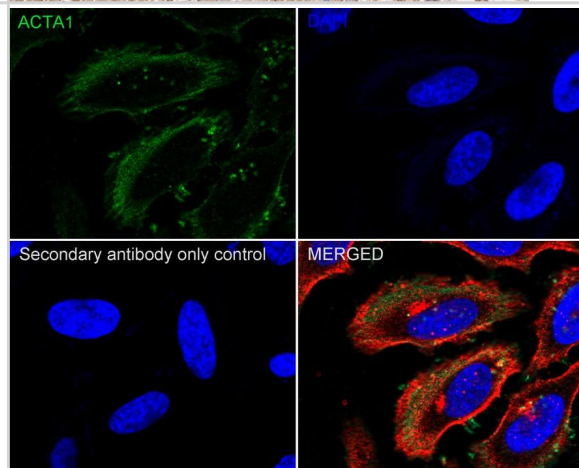
The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (NBP3-32712) at 1/10,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



Immunocytochemistry/ Immunofluorescence: pan Actin Antibody (A2E1-R) [NBP3-32712] - Immunocytochemistry analysis of HeLa cells labeling pan Actin with Mouse anti-pan Actin antibody (NBP3-32712) at 1/100 dilution.

Cells were fixed in 100% precooled methanol for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Mouse anti-pan Actin antibody (NBP3-32712) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 488) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

beta Tubulin (red) was stained at 1/100 dilution overnight at +4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 594) were used as the secondary antibody at 1/1,000 dilution.





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### **Products Related to NBP3-32712**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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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