

# Product Datasheet

## Actin Antibody (mAbGEa) - Azide and BSA Free NBP2-80561

Unit Size: 0.1 ml

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

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Updated 2/17/2025 v.20.1

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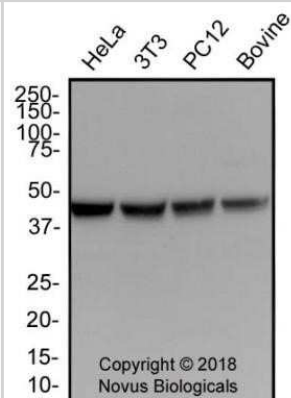
**NBP2-80561**

Actin Antibody (mAbGEa) - Azide and BSA Free

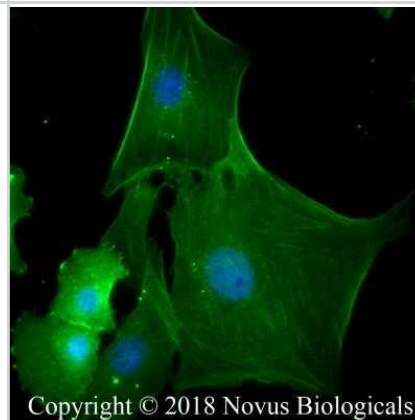
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	mAbGEa
Preservative	No Preservative
Isotype	IgM Kappa
Purity	IgM purified
Buffer	PBS
Product Description	
Host	Mouse
Gene ID	58
Gene Symbol	ACTA1
Species	Human, Mouse, Rat, Bovine, Chinese Hamster, Drosophila, Fungi, Plant, Protozoa, Rabbit, Sheep, Xenopus, Yeast, Zebrafish
Reactivity Notes	Chinese hamster data from customer review. Sordaria macrospora reactivity reported in scientific literature (PMID: 24720701).
Immunogen	Purified recombinant Arabidopsis Actin protein [UniProt# P0CJ46]
Product Application Details	
Applications	Western Blot, Simple Western, ELISA, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready
Recommended Dilutions	Western Blot 1:100 - 1:1000, Simple Western 1:25, Flow Cytometry 1:10 - 1:1000, ELISA 1:100 - 1:2000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:20 - 1:100, Immunohistochemistry-Paraffin 1:200, Flow (Intracellular), CyTOF-ready
Application Notes	In Western blot, a band is seen at ~45 kDa representing Actin. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors. In IHC-P and ICC/IF, cytoplasmic staining is observed. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: antibody dilution of 1:25. Separated by Size-Wes, Sally Sue/Peggy Sue.

## Images

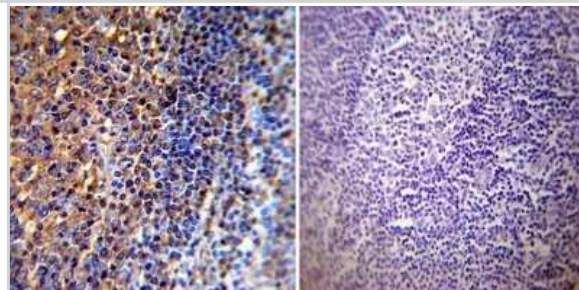
**Western Blot: Actin Antibody (mAbGEa) - Azide and BSA Free [NBP2-80561]** - Total protein from HeLa, 3T3, PC12 and Bovine normal tissue was separated on a 12% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 1.0 ug/mL anti-Actin in 5% blocking buffer and detected with an anti-mouse IgM secondary antibody using chemiluminescence. Image from the standard format of this antibody.



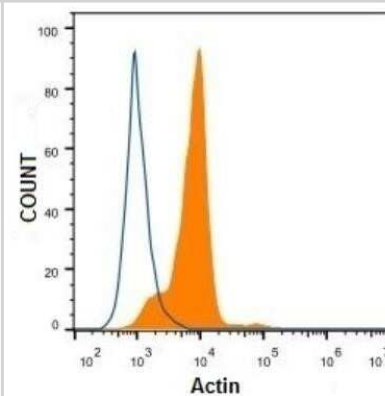
**Immunocytochemistry/Immunofluorescence: Actin Antibody (mAbGEa) - Azide and BSA Free [NBP2-80561]** - NIH-3T3 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.05% Triton X-100. The cells were incubated with anti-Actin (mAbGEa) at 5 ug/mL overnight at 4C and detected with an anti-Mouse IgM DyLight 488 (Green) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image from the standard format of this antibody.



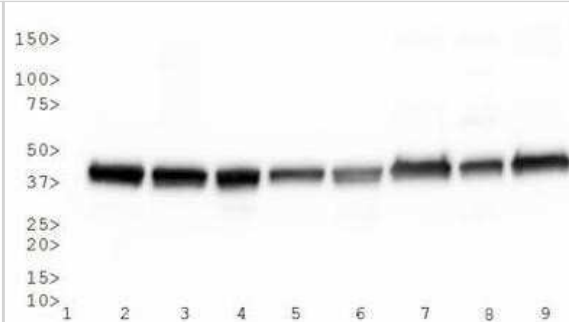
**Immunohistochemistry-Paraffin: Actin Antibody (mAbGEa) - Azide and BSA Free [NBP2-80561]** - Both normal and cancer biopsies of deparaffinized Human tonsil tissues. Image from the standard format of this antibody.



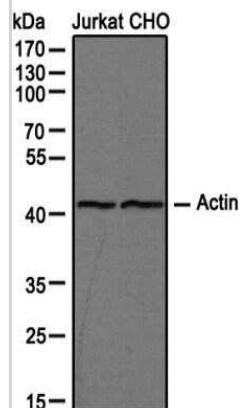
**Flow Cytometry: Actin Antibody (mAbGEa) - Azide and BSA Free [NBP2-80561]** - Analysis of HeLa cells using mouse Actin antibody (Orange) and Isotype control Antibody (Blue). Image from the standard format of this antibody.



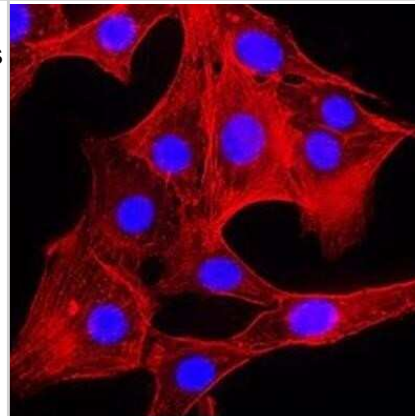
Western Blot: Actin Antibody (mAbGEa) - Azide and BSA Free [NBP2-80561] - Analysis of Actin expression in 2) HeLa, 3) NTERA-2, 4) A431, 5) HepG2, 6) MCF7, 7) NIH-3T3, 8) PC-12 and 9) COS-7 whole cell lysates. Image from the standard format of this antibody.



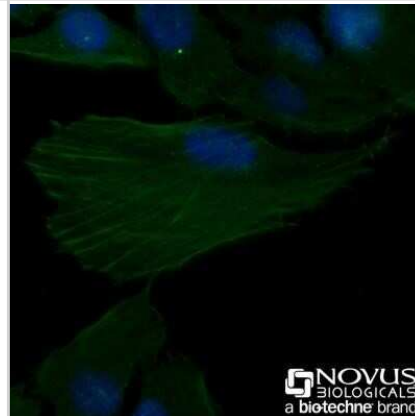
Western Blot: Actin Antibody (mAbGEa) - Azide and BSA Free [NBP2-80561] - Analysis of Jurkat and CHO cell lysates using actin antibody [NB100-74340] at 1:100. Image from the standard format of this antibody.



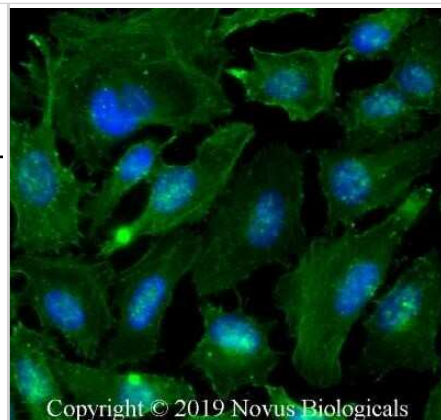
Immunocytochemistry/Immunofluorescence: Actin Antibody (mAbGEa) - Azide and BSA Free [NBP2-80561] - Actin was detected in NIH-3T3 cells fixed with methanol using mouse anti-mouse beta-Actin monoclonal antibody (NB100-74340) at 1:1800. Cells were stained using Northern Lights 557 conjugated anti-mouse secondary antibody (NL007) and counterstained with DAPI. Image from the standard format of this antibody.



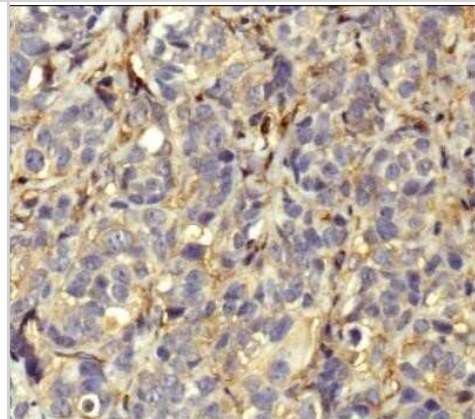
Immunocytochemistry/Immunofluorescence: Actin Antibody (mAbGEa) - Azide and BSA Free [NBP2-80561] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.05% Triton X-100. The cells were incubated with anti-Actin (mAbGEa) at 2 ug/mL overnight at 4C and detected with an anti-mouse IgM DyLight 488 (Green) at 1:500. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image from the standard format of this antibody.



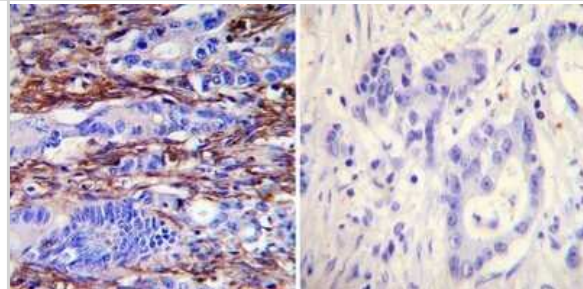
Immunocytochemistry/Immunofluorescence: Actin Antibody (mAbGEa) - Azide and BSA Free [NBP2-80561] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.05% Triton-X100. The cells were incubated with anti-Actin Antibody (mAbGEa) at 2 ug/ml overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:500 dilution. Actin was detected with Phalloidin 568 (Red) at a 1:200 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image from the standard format of this antibody.



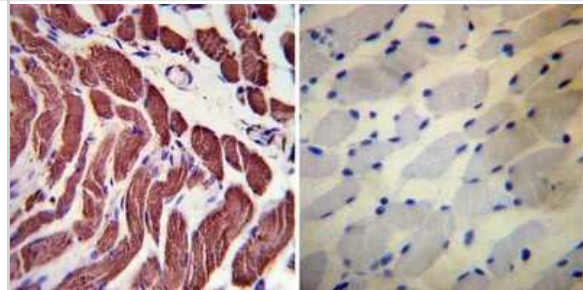
Immunohistochemistry: Actin Antibody (mAbGEa) - Azide and BSA Free [NBP2-80561] - Analysis of Actin on human breast cancer tissue using DAB with hematoxylin counterstain. Image from the standard format of this antibody.



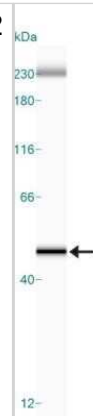
Immunohistochemistry: Actin Antibody (mAbGEa) - Azide and BSA Free [NBP2-80561] - Both normal and cancer biopsies of deparaffinized Human colon carcinoma tissues. Image from the standard format of this antibody.



Immunohistochemistry: Actin Antibody (mAbGEa) - Azide and BSA Free [NBP2-80561] - Both normal and cancer biopsies of deparaffinized Human skeletal muscle tissues. Image from the standard format of this antibody.



Simple Western: Actin Antibody (mAbGEa) - Azide and BSA Free [NBP2-80561] - Image shows a specific band for Actin in 0.1 mg/mL of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. Image from the standard format of this antibody.





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NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96975-0.5mg	Mouse IgM Kappa Light Chain Isotype Control (MMK)
H00000058-P01-10ug	Recombinant Human Actin GST (N-Term) Protein

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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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