

# Product Datasheet

## beta-Actin Antibody (8H10D10) - Azide and BSA Free NBP2-80595

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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**NBP2-80595**

beta-Actin Antibody (8H10D10) - Azide and BSA Free

**Product Information**

<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	8H10D10
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG2b
<b>Purity</b>	Ammonium sulfate precipitation
<b>Buffer</b>	PBS
<b>Target Molecular Weight</b>	42 kDa

**Product Description**

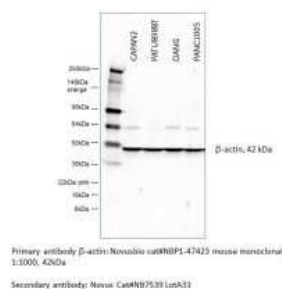
<b>Host</b>	Mouse
<b>Gene ID</b>	60
<b>Gene Symbol</b>	ACTB
<b>Species</b>	Human, Mouse, Rat, Chinese Hamster, Primate
<b>Immunogen</b>	This beta-Actin Antibody (8H10D10) was made to a synthetic peptide corresponding to amino-terminal residues of human Beta Actin, conjugated to KLH. [UniProt# P60709]

**Product Application Details**

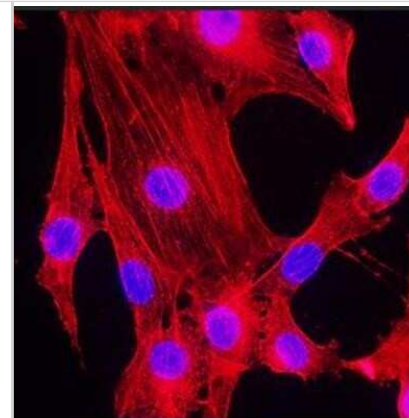
<b>Applications</b>	Western Blot, Simple Western, ELISA, Flow Cytometry, Immunoblotting, Immunocytochemistry/ Immunofluorescence, CyTOF-ready
<b>Recommended Dilutions</b>	Western Blot 1:1000-1:5000, Simple Western 12.5, Flow Cytometry 1:200-1:400, ELISA 1:10000, Immunocytochemistry/ Immunofluorescence 1:200-1:1000, Immunoblotting reported in scientific literature (PMID 27903531), CyTOF-ready
<b>Application Notes</b>	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 12.5. Separated by Size-Wes, Sally Sue/Peggy Sue.

**Images**

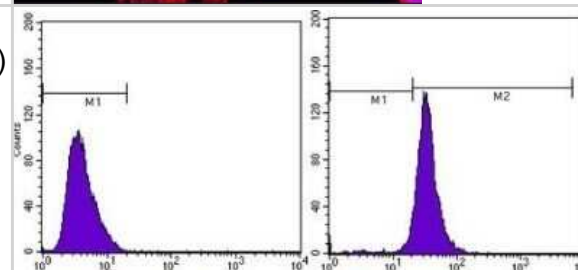
Western Blot: beta-Actin Antibody (8H10D10) - Azide and BSA Free [NBP2-80595] - Western blot of pancreatic cell lines (CAPAN2, PATU8988T, DANG, and PANC1005). Primary antibody: beta-Actin (8H10D10), NBP1-47423, 1:1000 dilution. Secondary antibody: HRP conjugated Mouse IgG (H+L), NB7539. A specific band can be observed at a molecular weight of approximately 42 kDa. Image from verified customer review using the standard format of this antibody.



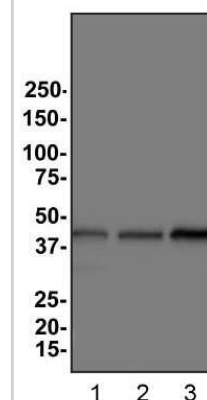
**Immunocytochemistry/Immunofluorescence:** beta-Actin Antibody (8H10D10) - Azide and BSA Free [NBP2-80595] - Beta actin was detected in NIH-3T3 cells fixed with methanol using mouse anti-mouse beta-Actin monoclonal antibody (NBP1-47423) at 1:5400 dilution. Cells were stained using NorthernLights 557 conjugated anti-mouse secondary antibody (NL007) and counterstained with DAPI. Image from the standard format of this antibody.



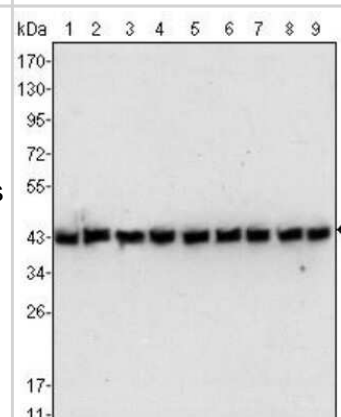
**Flow Cytometry:** beta-Actin Antibody (8H10D10) - Azide and BSA Free [NBP2-80595] - Analysis of MCF-7 cells using anti-Beta Actin mAb (right) and negative control (left). Image from the standard format of this antibody.



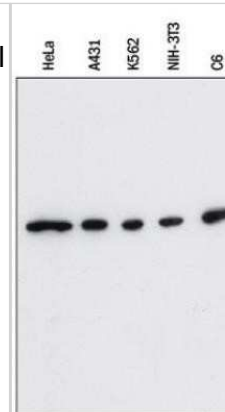
**Western Blot:** beta-Actin Antibody (8H10D10) - Azide and BSA Free [NBP2-80595] - Analysis of Beta Actin expression in 1) HeLa 2) HepG2 and 3) Cos7 whole cell lysates. Image from the standard format of this antibody.



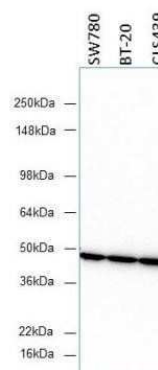
**Western Blot:** beta-Actin Antibody (8H10D10) - Azide and BSA Free [NBP2-80595] - Analysis using anti-Beta Actin mAb against human, mouse, hamster, rat, and primate cell lysate(s): (1) NIH/3T3, (2) Jurkat, (3) HeLa, (4) CHO, (5) PC12, (6) HEK293, (7) COS, (8) A549, and (9) MCF-7. A specific band can be observed at a molecular weight of approximately 43 kDa in all lanes. Image from the standard format of this antibody.



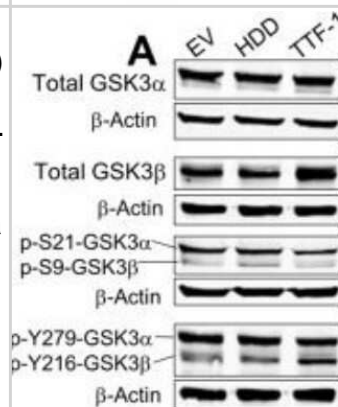
Western Blot: beta-Actin Antibody (8H10D10) - Azide and BSA Free [NBP2-80595] - Lysates of HeLa human cervical epithelial carcinoma cell line, A431 human epithelial carcinoma cell line, K562 human chronic myelogenous leukemia cell line, NIH-3T3 mouse embryonic fibroblast cell line, and C6 rat glioma cell line were probed with 1:2500 mouse anti-beta-Actin monoclonal (NBP1-47423) followed by 1:2000 dilution of donkey anti-mouse IgG-HRP secondary antibody (HAF018). Image from the standard format of this antibody.



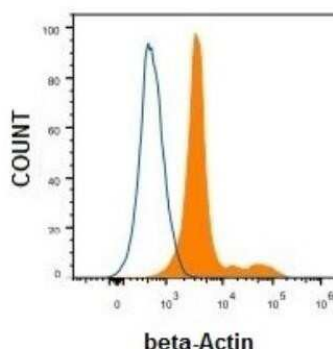
Western Blot: beta-Actin Antibody (8H10D10) - Azide and BSA Free [NBP2-80595] - Three different human cancer cell lines (SW780, BT-20, and CLS439) were probed with the antibody. Image from verified customer review. Image from the standard format of this antibody.



Western Blot: beta-Actin Antibody (8H10D10) - Azide and BSA Free [NBP2-80595] - TTF-1 alters the phosphorylation of GSK3alpha/beta. (A) Panels of immunoblot images examining total GSK3alpha/beta and phosphorylation at specific Ser or Tyr residues in A549 transfectant cells. Beta-Actin is included as a loading control. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41598-019-44549-w>), licensed under a CC-BY license. Image from the standard format of this antibody.



Flow Cytometry: beta-Actin Antibody (8H10D10) - Azide and BSA Free [NBP2-80595] - Analysis of HeLa cells using mouse Monoclonal beta-Actin antibody (Orange) and Isotype control Antibody (Blue). Image from the standard format of this antibody.



Simple Western: beta-Actin Antibody (8H10D10) - Azide and BSA Free [NBP2-80595] - Image shows a specific band for Beta Actin in 1.0 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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### **Products Related to NBP2-80595**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP2-27231	Mouse IgG2b Isotype Control (MPC-11)
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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