

Product Datasheet

beta-Actin Antibody (AC-15) [HRP] NB600-501H

Unit Size: 0.1 ml

Store at 4C in the dark.

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Updated 9/11/2024 v.20.1

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NB600-501H

beta-Actin Antibody (AC-15) [HRP]

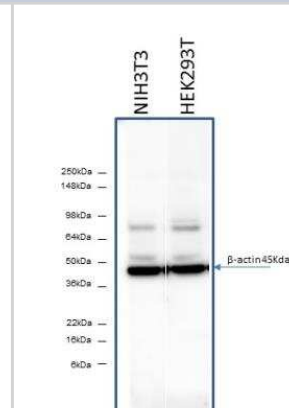
Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C in the dark.
Clonality	Monoclonal
Clone	AC-15
Preservative	No Preservative
Isotype	IgG1
Conjugate	HRP
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	42 kDa
Product Description	
Host	Mouse
Gene ID	60
Gene Symbol	ACTB
Species	Human, Mouse, Rat, Porcine, Bovine, Canine, Chicken, Feline, Fish, Guinea Pig, Hamster, Leech, Mammal, Primate, Rabbit, Sheep, Squirrel, Zebrafish, Drosophila (Negative)
Reactivity Notes	The antibody cross reacts with beta-actin expressing cells in carp, leech tissues (<i>Hirudo medicinalis</i>), ground squirrel. Does not cross react with adult cardiac, skeletal muscle, drosophila or amoeba beta actin. Mammal reactivity and Hamster reactivity reported in scientific literature (PMID: 25130694 and 24478435 respectively). Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
Specificity/Sensitivity	In staining of chicken gizzard ultrathin tissue cryosections, the antibody labels the dense bodies and longitudinal channels linking consecutive dense bodies that are also occupied by desmin and the membrane-associated dense plaque. It does not stain adult cardiac and skeletal muscles except for traces due to contaminations of the sample with non-muscle cells, or if embryonic tissue is being used. The epitope recognized by the antibody is resistant to formalin-fixing and paraffin-embedding.
Immunogen	This beta-Actin Antibody (AC-15) was made to a slightly modified Beta-cytoplasmic actin N-terminal peptide, Ac-Asp-Asp-Asp-Ile-Ala-Ala-Leu-Val-Ile-Asp-Asn-Gly-Ser-Gly-Lys, conjugated to KLH.
Notes	This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.
Product Application Details	
Applications	Western Blot, Simple Western, ELISA, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Knockdown Validated, Knockout Validated



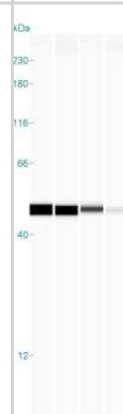
Recommended Dilutions	Western Blot, Simple Western, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, Knockout Validated, Knockdown Validated
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Images

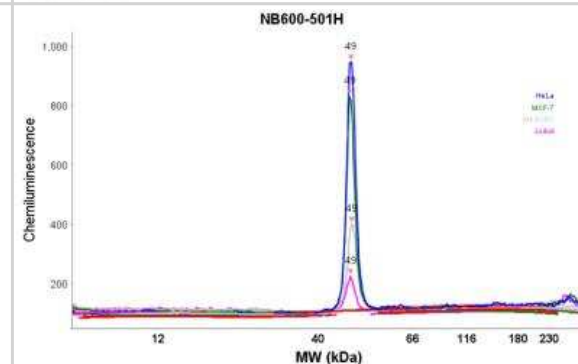
Western Blot: beta-Actin Antibody (AC-15) [HRP] [NB600-501H] - Analysis of beta-actin in NIH/3T3 and HEK293T cells using beta-actin antibody conjugated with HRP. Image from verified customer review.



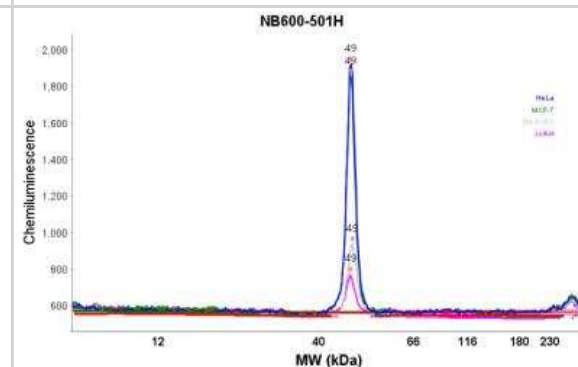
Simple Western: beta-Actin Antibody (AC-15) [HRP] [NB600-501H] - Simple Western lane view shows a specific band for Beta-Actin in 0.2 mg/ml of Hela, MCF-7, SH-SY5Y, & Jurkat lysate(s). This experiment was performed under reducing conditions using the 12 - 230 kDa separation system.



Simple Western: beta-Actin Antibody (AC-15) [HRP] [NB600-501H] - Electropherogram image(s) of corresponding Simple Western lane view. Beta-Actin antibody was used at 1:500 dilution on Hela, MCF-7, SH-SY5Y, & Jurkat lysate(s).



Simple Western: beta-Actin Antibody (AC-15) [HRP] [NB600-501H] - Electropherogram image(s) of corresponding Simple Western lane view. Beta-Actin antibody was used at 1:100 dilution on Hela, MCF-7, SH-SY5Y, & Jurkat lysate(s).



Publications

Trent B, Liang Y, Xing Y et al. Polarized Lung Inflammation and Tie2/Angiopoietin-Mediated Endothelial Dysfunction during Severe *Orientia tsutsugamushi* Infection *BioRxiv* 2019-08-02 [PMID: 32119672] (WB, Mouse, Human)

Davis SM, Collier LA, Foran EA et al. Neuroprotective activity of leukemia inhibitory factor is relayed through myeloid zinc finger-1 in a rat model of stroke *Metab Brain Dis.* 2019-04-15 [PMID: 30612292] (WB, Rat)

Details:

Citation using the HRP form of this antibody.

Pang X, Wang Z, Yin D, Zhang Z. Overexpression of hypoxia-inducible factor prolyl- hydroxylase attenuated by HCG-induced vascular endothelial growth factor expression in luteal cells. *Mol Med Rep* 2015-05-16 [PMID: 25975603]

Wu L, Zhang Z, Pan X et al. Expression and contribution of the HIF-1 alpha/VEGF signaling pathway to luteal development and function in pregnant rats *Mol Med Rep* 2015-09-02 [PMID: 26323652] (Rat)

Van Opdenbosch Nina, Gurung Prajwal, Vande Walle Lieselotte et al. Activation of the NLRP1b inflammasome independently of ASC-mediated caspase-1 autoproteolysis and speck formation. *Nat Commun* 2014-01-01 [PMID: 24492532] (WB)

Details:

Using the HRP conjugated version of NB600-501, catalog number NB600-501H.

Vande Walle Lieselotte, Van Opdenbosch Nina, Jacques Peggy et al. Negative regulation of the NLRP3 inflammasome by A20 protects against arthritis. *Nature* 2014-08-07 [PMID: 25043000] (WB, Mouse)

Details:

Using the HRP conjugated version of NB600-501, catalog number NB600-501H.

Brugger D, Buffler M, Windisch W. Development of an experimental model to assess the bioavailability of zinc in practical piglet diets. *Arch Anim Nutr* 2014-04-01 [PMID: 24646148] (WB, Porcine)

Details:

Using the HRP conjugated version of NB600-501, catalog number NB600-501H.

Liu L, Martin R, Kohler G, Chan C. Palmitate induces transcriptional regulation of BACE1 and presenilin by STAT3 in neurons mediated by astrocytes. *Exp Neurol* 2013-10-01 [PMID: 23968646] (WB, Rat)

Details:

Using the HRP conjugated version of NB600-501, catalog number NB600-501H.



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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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