Product Datasheet

beta-Actin Antibody NB600-503SS

Unit Size: 0.025 ml

Store at 4C. Do not freeze.

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Reviews: 3 Publications: 61

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NB600-503SS

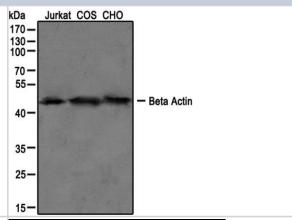
beta-Actin Antibody

Product Information	
Unit Size	0.025 ml
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Purity	Immunogen affinity purified
Buffer	Tris-citrate/phosphate, pH 7-8
Product Description	
Host	Rabbit
Gene ID	60
Gene Symbol	ACTB
Species	Human, Mouse, Rat, Avian, Chinese Hamster, Primate, Porcine, Rabbit
Species Reactivity	Human, Rat, Monkey, Mouse and Avian. Rabbit reactivity reported in the scientific literature (PMID: 23813946). Expected to cross-react with a wide range of species due to sequence homology.
Immunogen	A synthetic peptide made to an N-terminal region of human Beta Actin. [UniProt P60709].
Product Application Details	
Applications	Western Blot, Simple Western, Blocking/Neutralizing, Enzyme Immunoassay, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Proximity Ligation Assay
Recommended Dilutions	Immunohistochemistry 1:100, Immunohistochemistry-Paraffin 1:100, Immunoprecipitation 1:10-1:500, Western Blot 1:100-1:2000, Blocking/Neutralizing, Enzyme Immunoassay, Immunocytochemistry/Immunofluorescence, Proximity Ligation Assay, Simple Western 1:12.5
Application Notes	Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended. Immunocytochemistry/Immunofluorescence, Blocking/Neutralizing and Enzyme Immunoassay were reported in scientific literature. Customer review using ICC. Use in Proximity Ligation Assay reported in scientific literature (PMID 24740405)In Simple Western only 10-15 uL of the recommended dilution is used per data point.

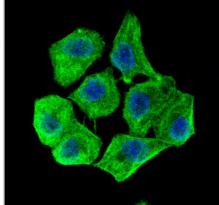


Images

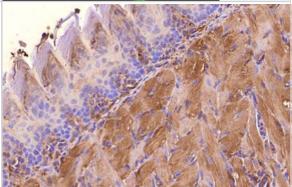
Western Blot: Beta Actin Antibody [NB600-503] - Western blot analysis of Jurkat, COS, and CHO cell lysate using beta actin antibody at 1:100.



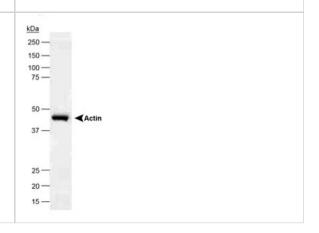
Immunocytochemistry/Immunofluorescence: Beta Actin Antibody [NB600 -503] - IF Confocal analysis of HeLa cells using Beta Actin antibody (NB600-503, 1:5). An Alexa Fluor 488-conjugated Goat to rabbit IgG was used as secondary antibody (green). DAPI was used to stain the cell nuclei (blue).



Immunohistochemistry: Beta Actin Antibody [NB600-503] - Analysis of Beta Actin in mouse epidermis using DAB with hematoxylin counterstain.



Western Blot: Beta Actin Antibody [NB600-503] - Rabbit polyclonal at 1/5000.



Simple Western: beta-Actin Antibody [NB600-503] - Simple Western lane view shows a specific band for Beta Actin in 0.1 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Publications

Golden D, Cantley LG. Casein kinase 2 prevents mesenchymal transformation by maintaining Foxc2 in the cytoplasm. Oncogene. 2014 Dec 08 [PMID: 25486430] (WB, Human, Mouse)

Details:

Beta actin antibody used for WB as loading control in experiments involving MCF10A cells, MDA-MB-436 cells, MDA-MB-231 cells and MPT cells (immortalized epithelial cells derived from the mouse proximal tubule).

Hsu TM, Konanur VR, Taing L et al. Effects of sucrose and high fructose corn syrup consumption on spatial memory function and hippocampal neuroinflammation in adolescent rats. Hippocampus. 2014 Sep 20 [PMID: 25242636] (WB)

Sbaraglini ML. Efectos del tratamiento oral con inhibidores de dipeptidilpeptidasa-4 y biguanidas sobre el metabolismo oseo thesis. 1905 Jul 06 (WB, Mouse, Rat)

Details:

Beta Actin antibody used in WB as loading control/ housekeeping gene expression in MC3T3E1 and bone marrow progenitor cells (CPMO; isolated from Sprague Dawley Rats)

Palmer LA, deRonde K, Brown-Steinke K et al. Hypoxia-Induced Changes in Protein S-nitrosylation in Female Mouse Brainstem Am. J. Respir. Cell Mol. Biol. 2014 Jun 12 [PMID: 24922346] (WB, Mouse)

Details:

Antibody used for WB in hypoxia treated/or not female GSNOR+/- and GSNO-/- mice

Holden VI, Lenio S, Kuick R et al. Bacterial siderophores that evade or overwhelm Lipocalin 2 induce HIF-1a and proinflammatory cytokine secretion in cultured respiratory epithelial cells Infect. Immun. 2014 Jun 30 [PMID: 24980968] (WB, Human)

Details:

Beta actin antibody used for WB at 1:5000 dilution in A549 respiratory epithelial cells stimulated with 50 uM Enterobactin (Ent, a bacterial siderophore), 3 mM Dimethyloxaloylglycine/DMOG (dioxygenase inhibitor), or 25 ?M protein Lipocalin 2/Lcn2 (Figure Figure 6 A and B).

Calabrese B, Saffin JM, Halpain S. Activity-Dependent Dendritic Spine Shrinkage and Growth Involve Downregulation of Cofilin via Distinct Mechanisms. PLoS ONE 2014 Apr 17 [PMID: 24740405] (PLA, Rat)

Bielinska AU, Makidon PE, Janczak KW et al. Distinct Pathways of Humoral and Cellular Immunity Induced with the Mucosal Administration of a Nanoemulsion Adjuvant. J. Immunol. 2014 Feb 17 [PMID: 24532579] (WB, Human, Mouse)

Lin YC, Lee YC, Li LH, Yang RB. Tumor suppressor SCUBE2 inhibits breast-cancer cell migration and invasion through the reversal of epithelial-mesenchymal transition. J. Cell. Sci. 2014 Jan 1 [PMID: 24213532] (WB, Human)

Popescu CR, Sutherland MR, Cloutier A et al. Hyperoxia Exposure Impairs Nephrogenesis in the Neonatal Rat: Role of HIF-1alpha. PLoS One 2013 Dec 17 [PMID: 24358181] (WB, Rat)

Herroon MK, Rajagurubandara E, Hardaway AL et al. Bone marrow adipocytes promote tumor growth in bone via FABP4-dependent mechanisms. Oncotarget 2013 Nov [PMID: 24240026] (WB, Human)

Wang L, Wu Y, Tan Y et al. Cytotoxic effects of the quinolone levofloxacin on rabbit meniscus cells. J Appl Toxicol 2013 Jul 1 [PMID: 23813946] (WB, Rabbit)

Forristal CE, Winkler IG, Nowlan B et al. Pharmacological stabilization of HIF-1alpha increases hematopoietic stem cell quiescence in vivo and accelerates blood recovery following severe irradiation. Blood 2012 Dec 14 [PMID: 23243286]

More publications at http://www.novusbio.com/NB600-503





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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.

For more information on our guarantee, please visit www.novusbio.com/guarantee.

