Product Datasheet

beta-Actin Antibody - BSA Free NB600-505

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.



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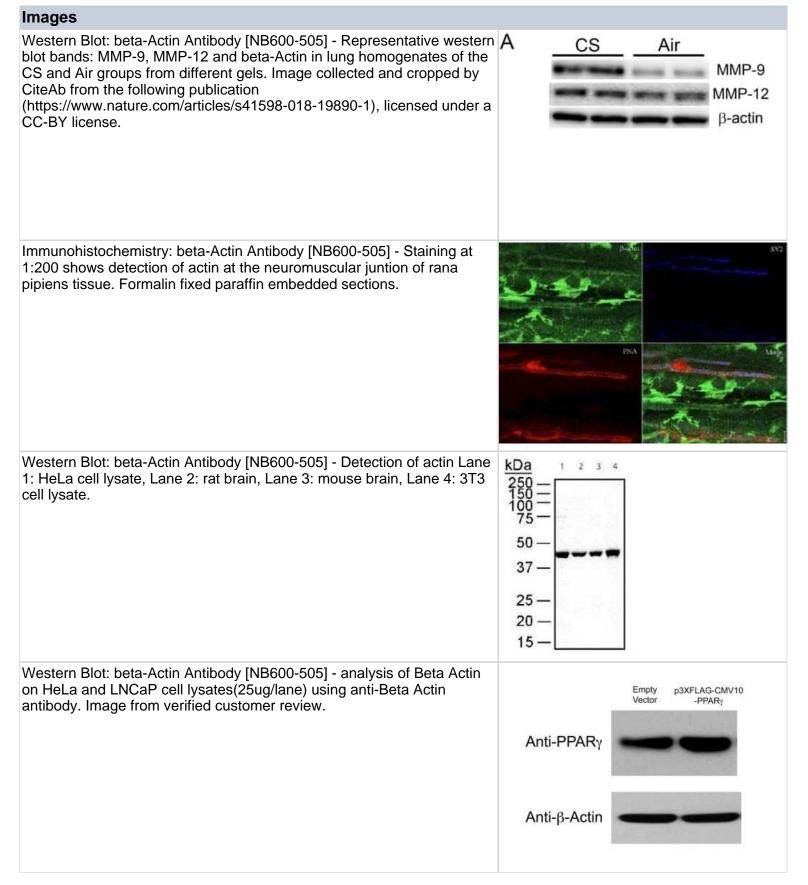


NB600-505

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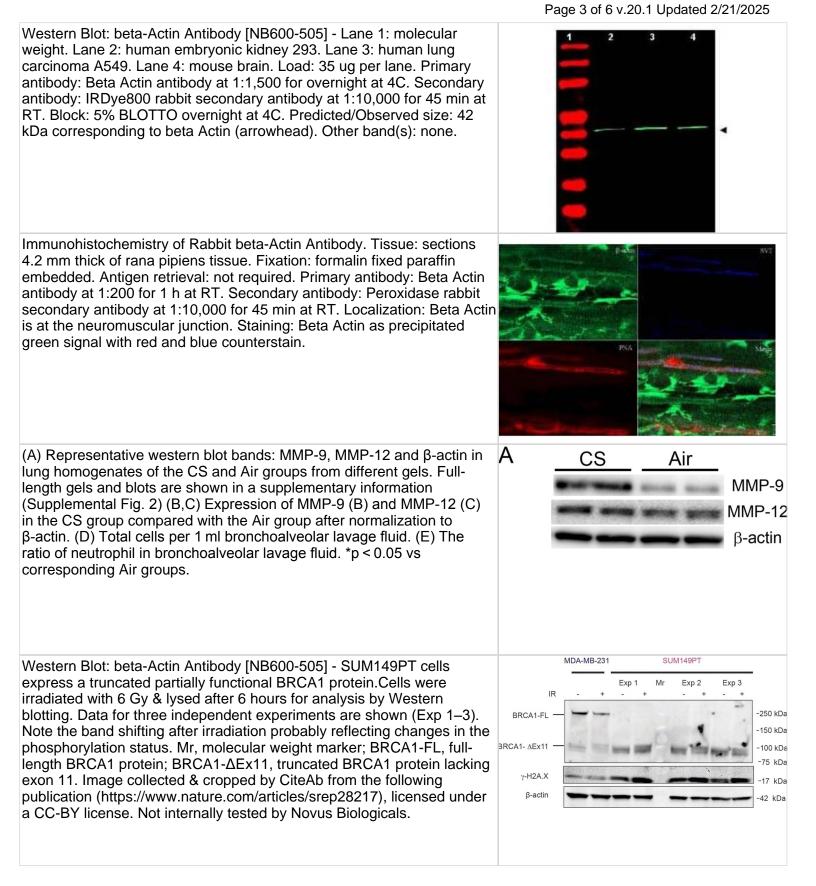
Product Information	
Unit Size	0.1 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Product Description	
Description	Store this antibody at -20C prior to opening. Aliquot contents and freeze at -20C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use.
Host	Rabbit
Gene ID	60
Gene Symbol	АСТВ
Species	Human, Mouse, Rat, Amphibian
Reactivity Notes	Lithobates (Leopard frog) br/> br/>beta-Actin Loading Control Antibody is expected to cross-react with a wide range of species due to sequence homology. A BLAST analysis was used to suggest that this antibody would react with beta Actin from a wide range of organisms, including most vertebrates and some yeast
Immunogen	beta-Actin Antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to C-Terminal region near amino acids 350-375 of Human beta Actin. (Uniprot: P60709)
Product Application Details	
Applications	Western Blot, ELISA, Electron Microscopy, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:1000-1:4000, ELISA 1:10000-1:40000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:500-1:2000, Immunohistochemistry-Paraffin 1:50 - 1:200, Electron Microscopy
Application Notes	This product has been tested for use in ELISA, immunofluorescence, and western blot. Specific conditions for reactivity should be optimized by the end user. Beta actin present in fibroblast connective tissue stains very brightly. Beta actin present in neuromuscular junctions also stains. Paraformaldehyde fixation yields brighter staining than formalin or methanol fixation. Expect a band at ~42 kDa in size corresponding to beta actin by western blotting in the appropriate cell lysate or extract. Use in electron microscopy reported in scientific literature (PMID: 18799754).



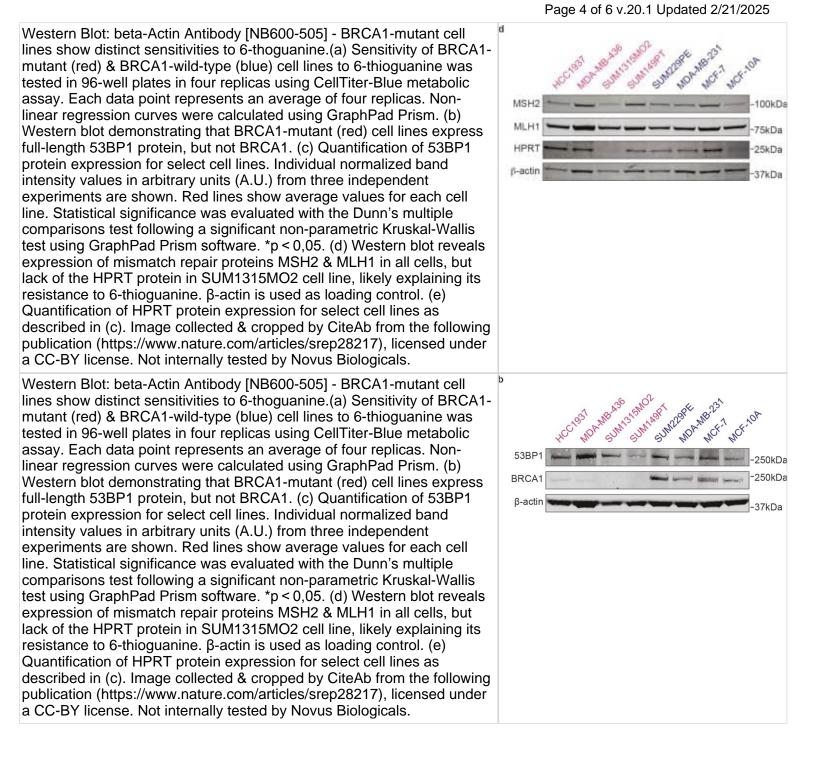












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Publications

Madhura D, Theodore P, Nahed J et al. Error-prone repair of stalled replication forks drives mutagenesis and loss of heterozygosity in haploinsufficient BRCA1 cells. Mol Cell. 2022-09-07 [PMID: 36099913]

N Kondo, F Hirano, T Temma Evaluation of 3-Borono-I-Phenylalanine as a Water-Soluble Boron Neutron Capture Therapy Agent Pharmaceutics, 2022-05-22;14(5):. 2022-05-22 [PMID: 35631692]

Colli LM, Jessop L, Myers TA Et al. Altered regulation of DPF3, a member of the SWI/SNF complexes, underlies the 14q24 renal cancer susceptibility locus American journal of human genetics 2021-08-09 [PMID: 34390653] (WB, Mouse)

Thomas-Jardin SE, Kanchwala MS, Jacob J et al. Identification of an IL-1-induced gene expression pattern in AR(+) PCa cells that mimics the molecular phenotype of AR(-) PCa cells. Prostate 2018-06-01 [PMID: 29527701] (Human)

Shapiro M, Tang T, Dasgupta A, Kurenbekova L. In Vitro and In Vivo Characterization of a Preclinical Radiation-Adapted Model for Ewing Sarcoma. Int J Radiat Oncol Biol Phys. 2018-02-01 [PMID: 29534895] (Human)

Kondo N, Temma T, Aita K et al. Development of matrix metalloproteinase-targeted probes for lung inflammation detection with positron emission tomography Sci Rep 2018-01-22 [PMID: 29358724] (WB, Mouse)

Gu Y, Bouwman P, Greco D et al. Suppression of BRCA1 sensitizes cells to proteasome inhibitors. Cell Death Dis 2014-12-18 [PMID: 25522274] (WB)

Bigot P, Colli LM, Machiela MJ et al. Functional characterization of the 12p12 1 renal cancer-susceptibility locus implicates BHLHE41. Nat Commun. [PMID: 27384883] (WB)

Details:

Citation using the HRP form of this antibody.

Gu Y, Helenius M, Vaananen K et al. BRCA1-deficient breast cancer cell lines are resistant to MEK inhibitors and show distinct sensitivities to 6-thioguanine. Sci Rep 2016-06-17 [PMID: 27313062] (WB)

Denis N, Palmer-Smith H, Elisma F et al. Quantitative Proteomic Analysis of PCSK9 Gain of Function in Human Hepatic HuH7 Cells. J Proteome Res. 2011-03-10 [PMID: 21332221]

Gerrits Han, Parade Marc C B C, Koonen-Reemst Annemie M C B et al. Reversible infertility in a liver receptor homologue-1 (LRH-1)-knockdown mouse model. Reprod Fertil Dev. 2014-01-01 [PMID: 23425349] (Mouse)

Chang M A, Patel V, Gwede M et al. IL-1beta induces p62/SQSTM1 and represses androgen receptor expression in prostate cancer cells. J Cell Biochem. 2014-12-01 [PMID: 25103771]

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Products Related to NB600-505

NB800-PC1	HeLa Whole Cell Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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