Product Datasheet

Actin Gamma 1 Antibody - BSA Free NB600-533

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

www.novusbio.com

technical@novusbio.com

Publications: 6

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NB600-533

Actin Gamma 1 Antibody - BSA Free

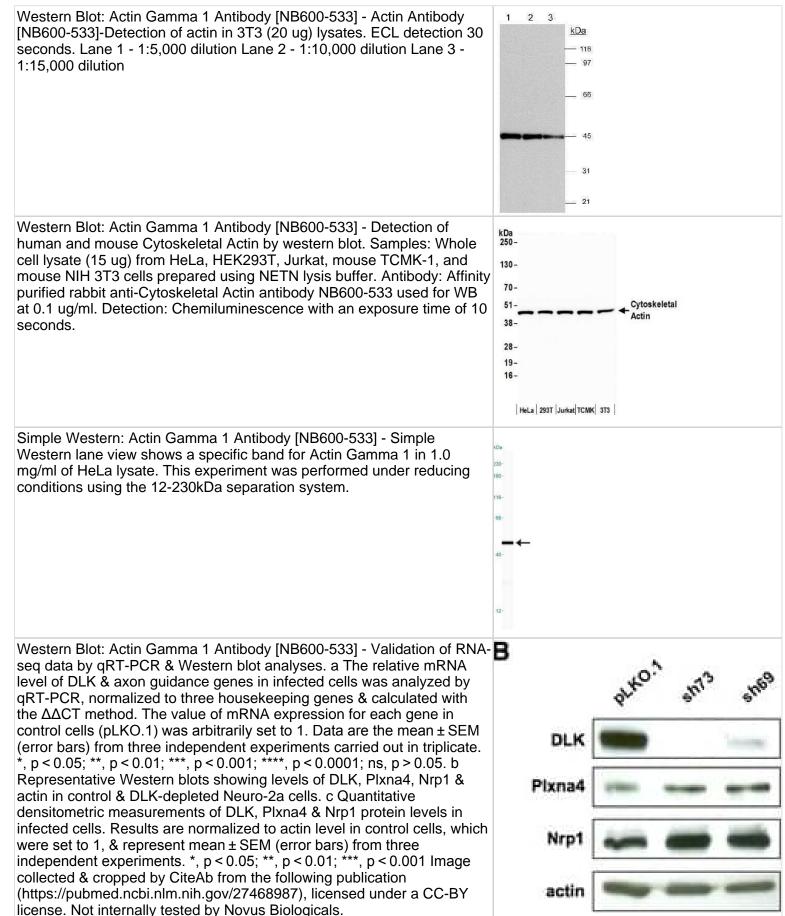
0.1 mg
1.0 mg/ml
Store at 4C. Do not freeze.
Polyclonal
0.09% Sodium Azide
IgG
Immunogen affinity purified
Tris-Citrate/Phosphate (pH 7.0 - 8.0)
45 kDa
Rabbit
71
ACTG1
Human, Mouse
Human and mouse.
The epitope recognized by this antibody maps to the N-terminus of human Actin Gamma 1 [UniProt# P63261]. The N-terminus of Actin Gamma 1 is highly conserved with Beta Actin and preliminary indications are that NB600-533 also recognizes Beta Actin (GeneID 60).
Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Western Blot, Simple Western 1:100, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100, Immunoprecipitation 1:10- 1:500
 This Actin Gamma 1 antibody is useful for Immunocytochemistry/Immunofluorescence, Immunoprecipitation and Western Blot. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See <u>Simple Western Antibody Database</u> for Simple Western validation: Tested in HeLa lysate 1.0 mg/mL, separated by Size, antibody dilution of 1:100, apparent MW was 49 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue. 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.Use in FLOW reported in scientific literature (PMID 28501006).



Images

в Western Blot: Actin Gamma 1 Antibody [NB600-533] - Knockdown of DLK in differentiated Neuro-2a cells. Neuro-2a cells were infected with an empty lentiviral vector (pLKO.1) or with lentivirus expressing mouse DLK shRNAs (sh73 and sh69). After infection and selection with DL puromycin, cells were subjected to differentiation for 24 h before being processed for total RNA extraction and whole-cell extracts. p-JNI Representative Western blots showing levels of DLK, phospho-JNK (p-JNK), total JNK, phospho-c-Jun (p-c-Jun) and actin in infected Neuro-2a JN cells. Image collected and cropped by CiteAb from the following publication (https://neuraldevelopment.biomedcentral.com/articles/10.1186/s13064p-c-jun 016-0068-8), licensed under a CC-BY license. actin Immunocytochemistry/Immunofluorescence: Actin Gamma 1 Antibody [NB600-533] - Detection of Actin Gamma 1 (Green) in Hela cells using NB600-533 at a 1:50 dilution. Nuclei (Blue) were counterstained using Hoechst 33258. Immunohistochemistry: Actin Gamma 1 Antibody [NB600-533] - Sample: FFPE section of human testicular seminoma. Antibody: Affinity purified rabbit anti-Actin used at a dilution of 1:1,000 (1ug/ml). Detection: DAB Western Blot: Actin Gamma 1 Antibody [NB600-533] - Whole cell lysate from HeLa (1, 2.5, 5, 15 and 50 ug) and mouse NIH3T3 cells (50 ug), probed with diluted at 0.04 ug/ml. 130 70 5 38 28 19 16 50 15 5 2.5 HeL







Publications

Moore HR, Alspach E, Hirsch JL et al. The p38MAPK-MK2-HSP27 Pathway Regulates the mRNA Stability of the Senescence-Associated Secretory Phenotype bioRxiv 2019-06-08 (WB, Human)

Flanagan KC, Alspach E, Pazolli E, Parajuli S. c-Myb and C/EBPb regulate OPN and other senescence-associated secretory phenotype factors. Oncotarget. 2018-01-02 [PMID: 29416593] (WB, Human)

Luo H, Yao L, Zhang Y, Li R. Liquid chromatography-mass spectrometry-based quantitative proteomics analysis reveals chondroprotective effects of astragaloside IV in interleukin-1b-induced SW1353 chondrocyte-like cells. Biomed. Pharmacother. 2017-05-10 [PMID: 28501006] (FLOW, WB, Human)

Blondeau A, Lucier JF, Matteau D et al. Dual leucine zipper kinase regulates expression of axon guidance genes in mouse neuronal cells. Neural Dev 2016-07-28 [PMID: 27468987] (WB)

Duxin JP, Moore HR, Sidorova J et al. Okazaki fragment processing-independent role for human Dna2 enzyme during DNA replication. J Biol Chem 2012-06-01 [PMID: 22570476] (WB, Human)

Duxin JP, Dao B, Martinsson P et al. Human Dna2 Is a Nuclear Mitochondrial DNA Maintenance Protein. Mol Cell Biol;29(15):4274-4282. 2009-01-01 [PMID: 19487465]

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Procedures

Serum protocol for Actin Gamma 1 Antibody (NB600-533) Actin Gamma 1 Antibody: Western Blot Protocol

1. Perform SDS-PAGE (4-12%) on samples to be analyzed, loading 20 ug of total protein per lane.

2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.

3. Stain the blot using ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.

4. Rinse the blot in TBS for approximately 5 minutes.

5. Block the membrane using 5% non-fat dry milk + 1% BSA in TBS for 1 hour.

6. Dilute the rabbit anti-actin primary antibody (NB 600-533) in blocking buffer and incubate 2 hours at room temperature.

7. Wash the membrane in water for 5 minutes and apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) and incubate 1 hour at room temperature.

8. Wash the blot in TBS containing 0.05-0.1% Tween-20 for 10-20 minutes.

9. Wash the blot in type I water for an additional 10-20 minutes (this step can be repeated as required to reduce background).

10. Apply the detection reagent of choice in accordance with the manufacturer's instructions (Amersham's ECL is the standard reagent used at Novus Biologicals).

Note: Tween-20 can be added to the blocking buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.





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Products Related to NB600-533

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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