

# Product Datasheet

## p19ARF/CDKN2A Antibody (12-A1-1) - BSA Free NB200-169

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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**NB200-169**

p19ARF/CDKN2A Antibody (12-A1-1) - BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	This product is unpurified. The exact concentration of antibody is not quantifiable.
<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>	12-A1-1
<b>Preservative</b>	0.1% Sodium Azide
<b>Isotype</b>	IgG2b
<b>Purity</b>	Unpurified
<b>Buffer</b>	Ascites
<b>Target Molecular Weight</b>	19 kDa

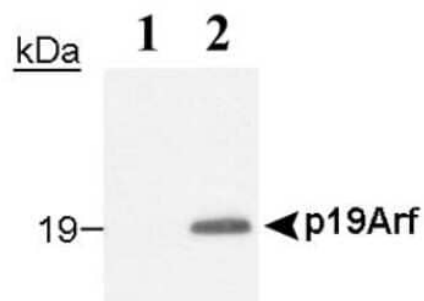
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rat p19ARF/CDKN2A Antibody (12-A1-1) - BSA Free (NB200-169) is a monoclonal antibody validated for use in IHC, WB, ELISA, ICC/IF and IP. Anti-p19ARF/CDKN2A Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rat
<b>Gene ID</b>	12578
<b>Gene Symbol</b>	Cdkn2a
<b>Species</b>	Mouse, Hamster (Negative), Human (Negative)
<b>Reactivity Notes</b>	No reactivity with human or Golden Syrian hamster. Armenian hamster has not been tested.
<b>Specificity/Sensitivity</b>	This antibody is specific for murine p19ARF/CDKN2A. It does not recognize human p14Arf nor Golden hamster p13Arf.
<b>Immunogen</b>	A synthetic peptide made to a sequence (within residues 1-100) of mouse p19ARF/CDKN2A. [UniProt# Q64364]

<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:500, ELISA 1:5000-1:10000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunoprecipitation 1:100, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500
<b>Application Notes</b>	By Western blot, this antibody recognizes bands at ~19 kDa.

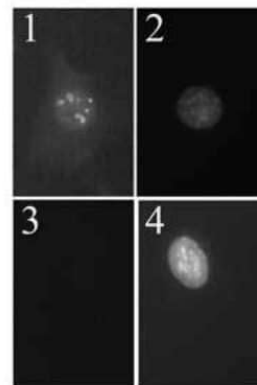


## Images

**Western Blot: p19ARF/CDKN2A Antibody (12-A1-1) [NB200-169]** - Analysis of endogenous p19Arf using NB200-169. Total cell lysates (25 ug) from NIH3T3 cells, which have deleted the Arf gene (Lanes 1) and from wild type mouse embryo fibroblasts (MEFs) at passage 6, which express p19Arf (Lanes 2), were resolved by SDS-PAGE. The membrane was probed with 1ug/ml purified p19Arf (NB200-169).



**Immunocytochemistry/Immunofluorescence: p19ARF/CDKN2A Antibody (12-A1-1) [NB200-169]** - Immunofluorescent detection of p19Arf in wild type mouse embryo fibroblasts (MEF) at passage 5 (lanes 1, 2) and NIH3T3 cells, which have deleted the Arf gene (lanes 3, 4) were fixed in methanol/acetone and probed with NB200-169, followed by a fluorescently labeled anti-rat IgG secondary antibody (lanes 1, 3). Cells were also stained with Hoechst dye to reveal the position of nuclei (lanes 2, 4).



**Immunoprecipitation: p19ARF/CDKN2A Antibody (12-A1-1) [NB200-169]** - Total cell lysates (250 ug) from NIH3T3 cells which have deleted the Arf gene (Lanes 5) and from NIH3T3 cells expressing an HA-tagged version of p19Arf (lanes 3, 4) were incubated with control rat IgG (Lanes 3), or NB200-169 (lanes 4, 5) and protein G- Sepharose. Precipitated proteins were resolved by SDS-PAGE and analysed by Western blotting using an anti-HA antibody. Unprecipitated total cell lysates (25 ug, equivalent to 10% of immunoprecipitation) from Arf null NIH3T3 cells (Lanes 1) and HA- p19Arf expressing cells (Lanes 2) were also analyzed by Western blotting, as input controls.



## Publications

James E, Teh M, Li Y et al. Membrane transporter progressive ankylosis protein homologue ( ANKH / Ank ) partially mediates senescence-derived extracellular citrate and is regulated by DNA damage, inflammation, and ageing. *Frontiers in Aging* 2025-06-04 [PMID: 40535023]

Guo Y, Chomiak AA, Hong Y et al. Histone H2A ubiquitination resulting from Brap loss of function connects multiple aging hallmarks and accelerates neurodegeneration *iScience* 2022-07-15 [PMID: 35754718] (WB, Mouse)

Rosello-Diez A, Madisen L, Bastide S et al. Cell-nonautonomous local and systemic responses to cell arrest enable long-bone catch-up growth in developing mice. *PLoS Biol.* 2018-06-01 [PMID: 29944650] (IF/IHC, Mouse)

Zhang X, Hagen J, Muniz VP et al. RABL6A, a Novel RAB-Like Protein, Controls Centrosome Amplification and Chromosome Instability in Primary Fibroblasts. *PLoS One.* 2013-11-25 [PMID: 24282525] (WB, Mouse)

Apicelli, AJ et al. A non-tumor suppressor role for basal p19ARF in maintaining nucleolar structure and function. *Mol Cell Biol*;28(3):1068-80. 2008-02-01 [PMID: 18070929]

Hernando E, Charytonowicz E, Dudas ME, Menendez S, Matushansky I, Mills J, Socci ND, Behrendt N, Ma L, Maki RG, Pandolfi PP, Cordon-Cardo C. The AKT-mTOR pathway plays a critical role in the development of leiomyosarcomas. *Nat Med*;13(6):748-53. 2007-06-01 [PMID: 17496901] (IF/IHC, Mouse)

Klochender-Yeivin, A, Picarsky, E, Yaniv, M. Increased DNA damage sensitivity and apoptosis in cells lacking the Snf5/Ini1 subunit of the SWI/SNF chromatin remodeling complex. *Mol Cell Biol* 26(7):2661-74. 2006-04-01 [PMID: 16537910] (WB, Mouse)



## Procedures

### Protocol specific for p19ARF Antibody (NB200-169)

p19ARF/CDKN2A Antibody (12-A1-1):

Western Blot

1. Cells are lysed by addition of RIPA buffer and incubated on ice for 20 minutes, with occasional agitation.
2. Insoluble material is pelleted by centrifugation at 20,000 RPM for 15 min at 4 degrees Celcius.
3. Protein in the supernatant is quantified by BCA assay.
4. Proteins are separated on a 12% SDS-denaturing gel.
5. Proteins are then transferred to PVDF membranes.
6. Membranes are probed for 1 hour with primary anti-p19ARF [cat# NB 200-169], diluted in TBS-T containing 10% nonfat milk powder.
7. The membrane is then washed several times with TBS-T.
8. The membrane is incubated for 30 minutes in a secondary antibody to rat IgG conjugated to horseradish peroxidase (HRP), diluted in TBS-T containing 5% milk.
9. After several washes with TBS-T, antibodies are visualized by incubation with Western Lightning Chemiluminescent Reagent (Perkin Elmer Life Sciences, Boston, MA), followed by autofluorography. Buffers RIPA: 50 mM Tris,pH 8.0 150 mM NaCl 1% Triton X-100 0.5% sodium deoxycholate 0.1% SDS 1 mM phenylmethylsulfonyl fluoride [PMSF] 0.3 units/mL Aprotinin 10 mM glycerophosphate 1 mM NaF 0.1 mM NaVO<sub>4</sub> TBS-T: 10 mM Tris, pH 7.4 150 mM NaCl 0.1%Tween-20





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### **Products Related to NB200-169**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
NB7115	Goat anti-Rat IgG (H+L) Secondary Antibody [HRP]
DDXCR03	Rat IgG2b Isotype Control

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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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