

# Product Datasheet

## Nuclear Antigen Antibody (235-1) NBP2-34342-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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Updated 10/23/2024 v.20.1

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**NBP2-34342-0.1mg**

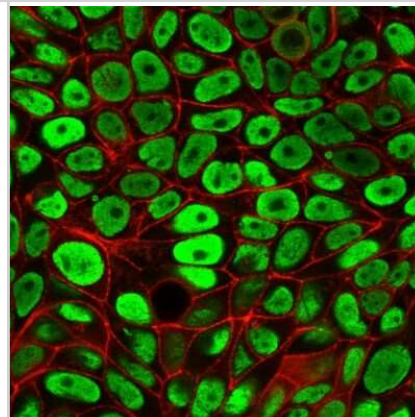
Nuclear Antigen Antibody (235-1)

| Product Information         |  |
|-----------------------------|--|
| Unit Size                   | 0.1 mg   |
| Concentration               | 0.2 mg/ml  |
| Storage                     | Store at 4C.   |
| Clonality                   | Monoclonal   |
| Clone                       | 235-1  |
| Preservative                | 0.05% Sodium Azide   |
| Isotype                     | IgG1 Kappa   |
| Purity                      | Protein A or G purified  |
| Buffer                      | 10 mM PBS with 0.05% BSA   |
| Product Description         |  |
| Description                 | <p>200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA &amp; 0.05% azide. Also available WITHOUT BSA &amp; azide at 1.0 mg/ml. (NBP2-34525)</p> <p>Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80 C.</p>   |
| Host                        | Mouse  |
| Species                     | Human, Porcine, Primate  |
| Reactivity Notes            | Use in Porcine reported in scientific literature (PMID:35327471). Does not react with Mouse, Rat and Chicken.  |
| Marker                      | Human Cell Marker  |
| Specificity/Sensitivity     | This monoclonal antibody is an excellent marker for human cells in xenographic model research. It reacts specifically with human cells. It is a part of a new panel of reagents, which recognizes subcellular organelles or compartments of human cells. These markers may be useful in identification of these organelles in cells, tissues, and biochemical preparations. monoclonal antibody 235-1 recognizes an antigen associated with the nuclei in human cells. It can be used to stain the nuclei in cell or tissue preparations and can be used as a nuclear marker in subcellular fractions. It produces a speckled pattern in normal and malignant cells and may be used to stain the nuclei of cells in fixed or frozen tissue sections. It can also be used with paraformaldehyde fixed frozen tissue or cell preparations. |
| Immunogen                   | Nuclei of human myeloid leukemia biopsy cells  |
| Product Application Details |  |
| Applications                | Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation  |
| Recommended Dilutions       | Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunoprecipitation 1000-2000 ug/500 ug protein lysate, Immunohistochemistry-Frozen, Flow (Intracellular)  |
| Application Notes           | Immunocytochemistry (Acetone-fixed cells): 1-2ug/ml for 30 minutes at RT. Immunohistochemistry (Frozen): 1-2ug/ml for 30 minutes at RT. Optimal dilution for a specific application should be determined   |

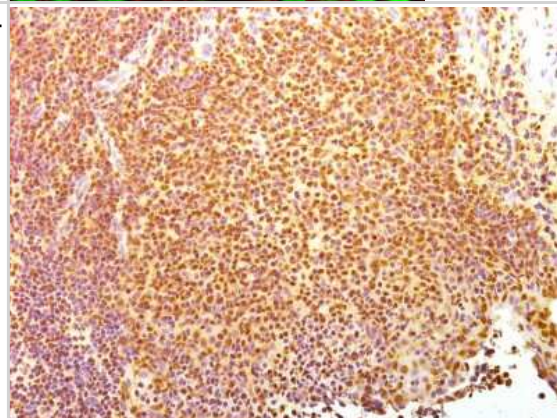


## Images

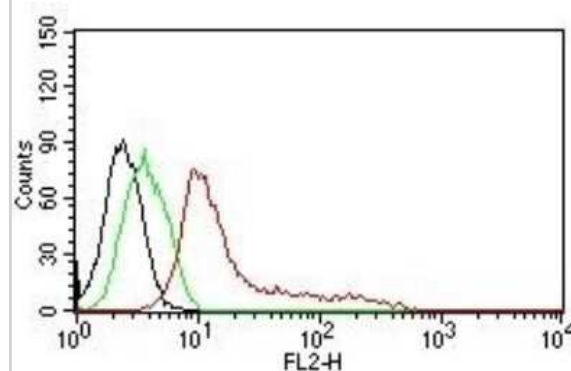
Immunocytochemistry/Immunofluorescence: Nuclear Antigen Antibody (235-1) [NBP2-34342] - Immunofluorescent staining of PFA-fixed MCF-7 cells with Nuclear Antigen Mouse Monoclonal Antibody (235-1) followed by goat anti-Mouse IgG-CF488 (Green). Counterstained with Phalloidin (red).



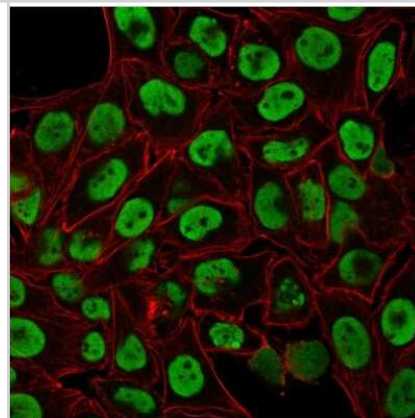
Immunohistochemistry-Frozen: Nuclear Antigen Antibody (235-1) [NBP2-34342] - Acetone-fixed frozen human Tonsil stained with Nuclear Antigen Antibody using HRP-DAB detection.



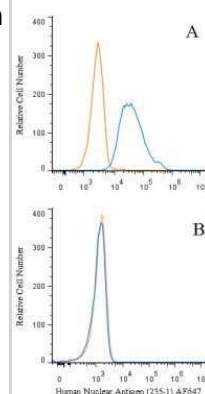
Flow Cytometry: Nuclear Antigen Antibody (235-1) [NBP2-34342] - Flow Cytometric analysis of Human Nuclear Antigen on MCF-7 cells. Black: cells alone; Green: Isotype Control; Red: PE-labeled Nuclear Antigen Monoclonal Antibody (235-1).



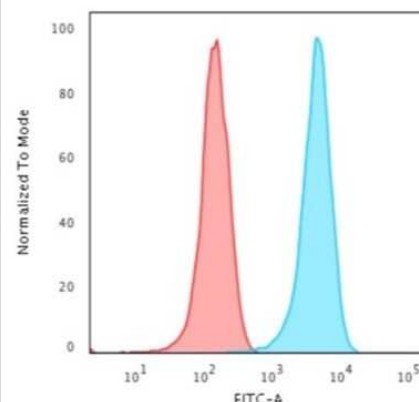
Immunocytochemistry/Immunofluorescence: Nuclear Antigen Antibody (235-1) [NBP2-34342] - Immunofluorescent staining of paraformaldehyde-fixed HeLa cells with Nuclear Antigen Antibody followed by goat anti-Mouse IgG-CF488 (Green). Counter stained with Phalloidin (red).



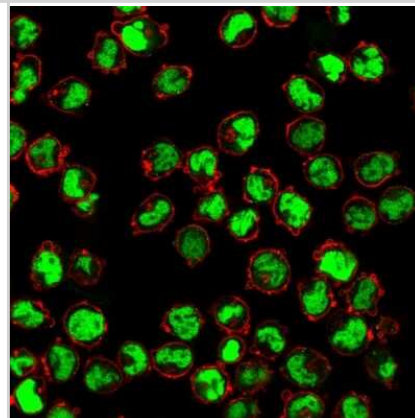
Flow (Intracellular): Nuclear Antigen Antibody (235-1) [NBP2-34342] - An intracellular stain was performed on HeLa cells with Human NBP2-34525AF647 (blue) along with a matched isotype control (orange). Cells were fixed with 4% PFA and permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes. Both antibodies were conjugated to Alexa Fluor 647. A negative control, RAW 264.7 cells, was also stained to ensure antibody specificity (B). Image from the Alexa Fluor 647 version of this antibody.



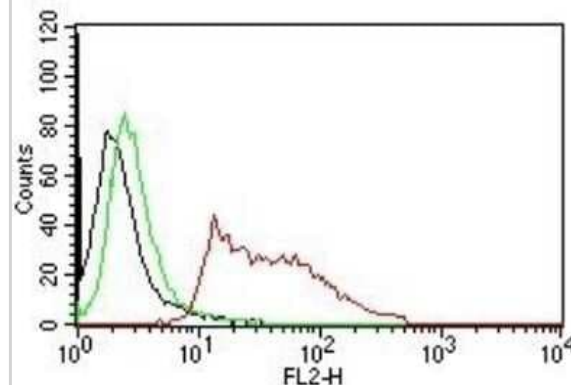
Flow Cytometry: Nuclear Antigen Antibody (235-1) [NBP2-34342] - Flow Cytometric Analysis of paraformaldehyde-fixed HeLa cells with Nuclear Antigen Antibody followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



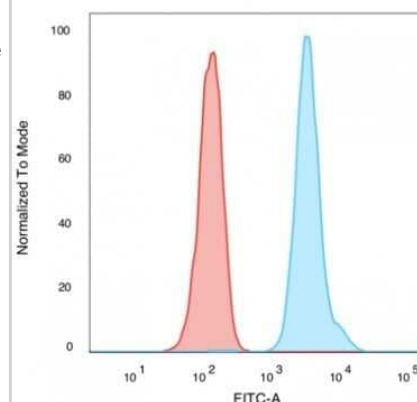
Immunocytochemistry/ Immunofluorescence: Nuclear Antigen Antibody (235-1) [NBP2-34342] - Immunofluorescent staining of PFA-fixed K562 cells with Nuclear Antigen Mouse Monoclonal Antibody (235-1) followed by goat anti-Mouse IgG-CF488 (Green). Counterstained with Phalloidin (red).



Flow Cytometry: Nuclear Antigen Antibody (235-1) [NBP2-34342] - Flow Cytometric analysis of Human Nuclear Antigen on HeLa cells. Black: cells alone; Green: Isotype Control; Red: PE-labeled Nuclear Antigen Monoclonal Antibody (235-1).



Flow Cytometry: Nuclear Antigen Antibody (235-1) [NBP2-34342] - Flow Cytometric Analysis of PFA-fixed K562 cells with Nuclear Antigen Mouse Monoclonal Antibody (235-1) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



## Publications

Mazuelas H, Magallón-Lorenz M, Fernández-Rodríguez J et al. Modeling iPSC-derived human neurofibroma-like tumors in mice uncovers the heterogeneity of Schwann cells within plexiform neurofibromas *Cell reports* 2022-02-15 [PMID: 35172160]

Vrathasha V, Nikonov S, Bell B et al. Transplanted human induced pluripotent stem cells- derived retinal ganglion cells embed within mouse retinas and are electrophysiologically functional *iScience* 2022-10-01 [PMID: 36388952]

Ashraf M, Tipparaju SM, Kim JW, Xuan W Chemokine/ITGA4 Interaction Directs iPSC-Derived Myogenic Progenitor Migration to Injury Sites in Aging Muscle for Regeneration *Cells* 2023-07-12 [PMID: 37508502] (ICC/IF, Mouse)

Lytvynchuk L, Ebbert A, Studenovska H et al. Subretinal Implantation of Human Primary RPE Cells Cultured on Nanofibrous Membranes in Minipigs *Biomedicines* 2022-03-14 [PMID: 35327471] (IF/IHC, Porcine)

Delgado RN, Allen DE, Keefe MG et al. Individual human cortical progenitors can produce excitatory and inhibitory neurons *Nature* 2021-12-15 [PMID: 34912114]

Mahlokozera T, Patel B, Chen H Et al. Competitive binding of E3 ligases TRIM26 and WWP2 controls SOX2 in glioblastoma *Nature communications* 2021-11-03 [PMID: 34732716] (ICC/IF, Human)

Khan M, Ashraf M Human iPS Cells Derived Skeletal Muscle Progenitor Cells Promote Myoangiogenesis and Restore Dystrophin in Duchenne Muscular Dystrophic Mice *Stem Cell Res Ther* 2021-02-13 [PMID: 33579366] (IHC-Fr, Human)

Salazar-Roa M, Trakala M, Alvarez-Fernández M et al. Transient exposure to miR-203 enhances the differentiation capacity of established pluripotent stem cells *EMBO J.* 2020-07-02 [PMID: 32614092] (ICC/IF)

Paudyal A, Ghinea FS, Driga MP et al. p5 Peptide-Loaded Human Adipose-Derived Mesenchymal Stem Cells Promote Neurological Recovery After Focal Cerebral Ischemia in a Rat Model *Transl Stroke Res* May 6 2020 12:00AM [PMID: 32378028] (IHC-Fr, Rat)

Ding Y, Johnson R, Sharma S et al. Tethering transforming growth factor beta 1 to soft hydrogels guides vascular smooth muscle commitment from human mesenchymal stem cells *Acta Biomater* 2020-01-23 [PMID: 31982589] (ICC/IF, Human)

Salazar-Roa M, Trakala M, Alvarez-Fernandez M A novel microRNA-based strategy to expand the differentiation potency of stem cells *bioRxiv* (ICC/IF, Human)

Martyn I, Kanno TY, Brivanlou AH, Chick Models and Human-Chick Organizer Grafts *Methods Mol Chick Models and Human-Chick Organizer Grafts. Methods Mol Biol.* 2019-01-01 [PMID: 31175647]

Details:

Citation using the Azide and BSA Free version of this antibody.

More publications at <http://www.novusbio.com/NBP2-34342>





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### **Products Related to NBP2-34342-0.1mg**

|                  |   |
|------------------|---|
| HAF007           | Goat anti-Mouse IgG Secondary Antibody [HRP]            |
| NB720-B          | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-43319-0.5mg | Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)           |

### **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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