

Product Datasheet

Ubiquitin Antibody NB300-129

Unit Size: 0.05 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Publications: 16

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Updated 9/9/2025 v.20.1

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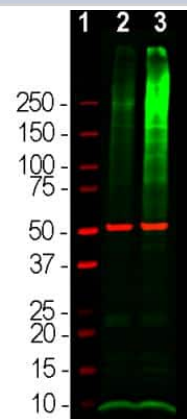
NB300-129

Ubiquitin Antibody

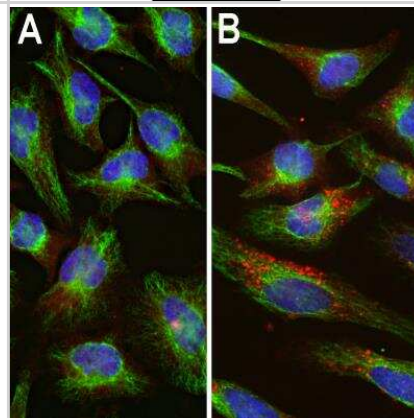
Product Information	
Unit Size	0.05 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.035% Sodium Azide
Isotype	IgG
Purity	Unpurified
Buffer	Supplied as serum
Target Molecular Weight	8.5 kDa
Product Description	
Description	Novus Biologicals Rabbit Ubiquitin Antibody (NB300-129) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Ubiquitin Antibody: Cited in 16 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	6233
Gene Symbol	RPS27A
Species	Human, Mouse, Rat
Specificity/Sensitivity	This antibody recognizes ubiquitinated inclusion bodies and both the mono- and polyubiquitin forms. This recognizes aggresomes.
Immunogen	Purified ubiquitin conjugated with glutaraldehyde to KLH
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Proximity Ligation Assay
Recommended Dilutions	Western Blot 1:5000-1:10000, Immunohistochemistry 1:500-1:1000, Immunocytochemistry/ Immunofluorescence 1:500-1:1000, Immunohistochemistry-Paraffin 1:500-1:1000, Immunohistochemistry-Frozen 1:500-1:1000, Proximity Ligation Assay
Application Notes	This Ubiquitin antibody can be used for Immunocytochemistry/Immunofluorescence, Immunohistochemistry, and Western blot. IHC-Fr reported in scientific literature (PMID: 25898785). Use in Proximity ligation assay reported in scientific literature (PMID:33053339).

Images

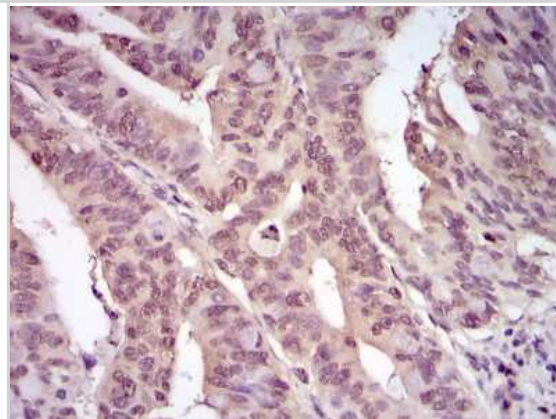
Western Blot: Ubiquitin Antibody [NB300-129] - Analysis of HEK293 cell lysates using rabbit Ubiquitin antibody, dilution 1:5000 (Green), and mouse beta-Tubulin antibody, dilution 1:10000 (Red) used as a loading control. [1] protein standard (Red), [2] cells maintained in normal medium, [3] cells treated with proteasome inhibitor lactacystin (Lc) at 10uM for 16 hours. Lysed cells were lysed and the lysate subjected to electrophoresis on a 4-20% SDS-PAGE gel, then electrophoretically transferred to PVDF membranes. The smear detected above the 200kDa standard represents accumulations of ubiquitinated proteins in the Lc treated cells. The prominent band at ~8kDa corresponds to monoubiquitin.



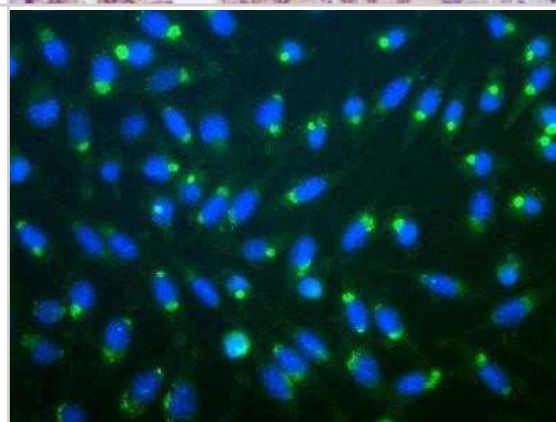
Immunocytochemistry/Immunofluorescence: Ubiquitin Antibody [NB300-129] - Analysis of HeLa cells stained with rabbit pAb to ubiquitin, NB300-129, dilution 1:1,000 in red, and costained with chicken pAb to vimentin, dilution 1:10,000, in green. The blue is DAPI staining of nuclear DNA. [A] Control HeLa cells maintained in normal medium, [B] HeLa cells treated with 10uM of the proteasome inhibitor lactacystin (Lc) for 24 hours. Proteasomal inhibition leads to formation of strongly ubiquitin positive cytoplasmic inclusions. Note the diffuse cytoplasmic ubiquitin staining in control cells and well defined ubiquitin positive inclusions in the Lc treated cells.



Immunohistochemistry-Paraffin: Ubiquitin Antibody [NB300-129] - IHC staining of Ubiquitin in human rectal cancer using DAB with hematoxylin counterstain.



Immunocytochemistry/Immunofluorescence: Ubiquitin Antibody [NB300-129] - Immunofluorescent staining of aggresomes of mouse L-cells treated with lactacysteine, using NB300-129.



Publications

W El Manaa, E Duplan, T Goiran, I Lauritzen, L Vaillant B, S Lacas-Gerv, VA Morais, H You, L Qi, M Salazar, U Ozcan, M Chami, F Checler, C Alves da C Transcription- and phosphorylation-dependent control of a functional interplay between XBP1s and PINK1 governs mitophagy and potentially impacts Parkinson disease pathophysiology Autophagy, 2021-05-24;0(0):1-23. 2021-05-24 [PMID: 34030589] (Immunocytochemistry/ Immunofluorescence, Human)

Yang S, Yang G, Wang X et al. SIRT2 alleviated renal fibrosis by deacetylating SMAD2 and SMAD3 in renal tubular epithelial cells Cell death & disease 2023-09-30 [PMID: 37777567]

Sachs, W;Blume, L;Loreth, D;Schebsdat, L;Hatje, F;Koehler, S;Wedekind, U;Sachs, M;Zielinski, S;Brand, J;Conze, C;Florea, BI;Heppner, F;Krüger, E;Rinschen, MM;Kretz, O;Thünauer, R;Meyer-Schwesinger, C; The proteasome modulates endocytosis specifically in glomerular cells to promote kidney filtration Nature communications 2024-03-01 [PMID: 38429282]

Sung, W;Noh, MY;Nahm, M;Kim, YS;Ki, CS;Kim, YE;Kim, HJ;Kim, SH; Progranulin haploinsufficiency mediates cytoplasmic TDP-43 aggregation with lysosomal abnormalities in human microglia Journal of neuroinflammation 2024 -02-13 [PMID: 38347588]

Wen J, Li Y, Qin Y et Al. Lycorine protects motor neurons against TDP-43 proteinopathy-induced degeneration in cross-species models with amyotrophic lateral sclerosis Pharmacol Res 2024-11-26 [PMID: 39603574]

Reichelt J, Sachs W, Frömbling S et al. Non-functional ubiquitin C-terminal hydrolase L1 drives podocyte injury through impairing proteasomes in autoimmune glomerulonephritis Nature communications 2023-04-13 [PMID: 37055432] (ICC/IF, Mouse)

Panicker N, Kam TI, Wang H et al. Neuronal NLRP3 is a parkin substrate that drives neurodegeneration in Parkinson's disease Neuron 2022-05-25 [PMID: 35654037] (WB, Mouse)

Garcia LR, Tenev T, Newman R et al. Ubiquitylation of MLKL at lysine 219 positively regulates necroptosis-induced tissue injury and pathogen clearance Nature communications 2021-06-07 [PMID: 34099649] (Mouse)

Lin LL, Kost ER, Lin CL et al. PAI-1-Dependent Inactivation of SMAD4-Modulated Junction and Adhesion Complex in Obese Endometrial Cancer Cell Rep 2020-10-13 [PMID: 33053339] (PLA, Human)

Sachs W, Sachs M, Krüger E et al. Distinct Modes of Balancing Glomerular Cell Proteostasis in Mucopolidosis Type II and III Prevent Proteinuria J. Am. Soc. Nephrol. 2020-07-08 [PMID: 32641396] (ICC/IF, Mouse)

Llombart V, Trejo SA, Bronsoms S et al. Profiling and identification of new proteins involved in brain ischemia using MALDI-imaging-mass-spectrometry. J Proteomics. 2016-11-22 [PMID: 27888142] (IF/IHC, Mouse)

Munoz-Saez E, de Munck Garcia E, Arahuetes Portero RM et al. Analysis of B-N-methylamino-L-alanine (L-BMAA) neurotoxicity in rat cerebellum. Neurotoxicology. 2015-04-18 [PMID: 25898785] (WB, IHC-Fr, Rat)

More publications at <http://www.novusbio.com/NB300-129>



Procedures

Immunohistochemistry-Paraffin Protocol Specific for NB300-129: Ubiquitin Antibody

Ubiquitin Antibody:

Materials

- 1) 1 Phosphate buffered saline (pH 7.6): NaCl 137mmol/L, KCl 2.7mmol/L, Na₂HPO₄ 4.3mmol/L, KH₂PO₄ 1.4 mmol/L
- 2) Citrate buffer, 0.01 M, pH6.0, Sodium Citrate 3g, Citric acid 0.4g
- 3) 3% Hydrogen peroxide
- 4) Primary antibody
- 5) Blocking serum (normal serum)
- 6) Biotinylated secondary antibody
- 7) DAB staining kit

Methods

1. Dewax and hydration of slides using xylene and EtOH:

Dry slides for 20 min in a 60 C oven

Add Xylene, 2 x 10 min

100%, 95%, 80%, and 70% EtOH, 5 min each EtOH concentration

Rinse in PBS, 5'

- 2 Antigen retrieval method (only for paraffin slides)

- 1a. High-pressure antigen retrieval procedure (recommended method)

Place slides in a glass slide holder (ensure that the slide holder is completely filled with slides, slides without sections if necessary, to ensure even heating. The entire slide holder is immersed in 1000 ml of Citrate buffer (0.01M, pH6.0) within a pressure cooker

Once steam is produced, and ONLY when steam is visible, from the pressure cooker (usually 15-20 min), the required high-pressure will have been reached, and slides will be incubated for 2 min.

Turn off heat, and allow buffer and slides to cool to room temperature

Slides are then rinsed in PBS for 5 minutes

2. Add 3% hydrogen peroxide solution, 10'at RT, then PBS, 3X5'

3. Normal blocking serum, 20'at RT

4. Incubate with Primary Ab, 4C overnight or 1.5 hours at 37C

5. Rinse with PBS, 3 X 5' each rinse

6. Add Biotin-conjugated second antibody, 10'at RT

7. Rinse with PBS, 3 X 5' each rinse

8. Add Streptavidin-Peroxidase, 10'at RT

9. Rinse with PBS, 3 X 5' each rinse

10. Staining with DAB solution, 2-5'under microscope

11. Stop the reaction by washing in tap water

12. Counterstain in Haematoxylin for 3-5 minutes

13. 75%, 80%, 95% and 100% ethanol, 5x2', xylene 2 x 10'



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Products Related to NB300-129

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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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