

Product Datasheet

RPL5 Antibody NBP1-31413

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Publications: 1

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NBP1-31413

RPL5 Antibody

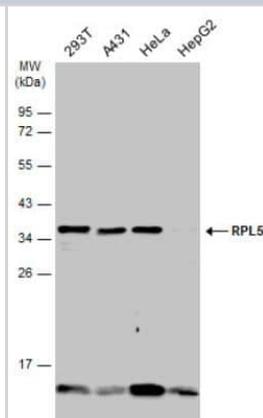
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.025% Proclin 300
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS, 1% BSA, 20% Glycerol
Target Molecular Weight	34 kDa

Product Description	
Description	Novus Biologicals Rabbit RPL5 Antibody (NBP1-31413) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-RPL5 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	6125
Gene Symbol	RPL5
Species	Human, Mouse, Rat
Reactivity Notes	Xenopus laevis (82%).
Immunogen	Recombinant protein encompassing a sequence within the center region of human RPL5. The exact sequence is proprietary.

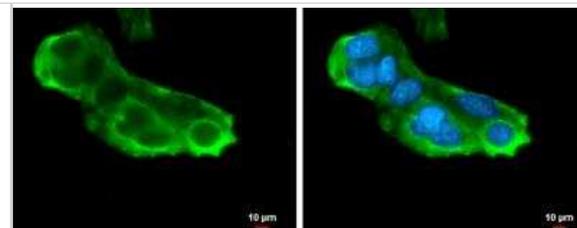
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Knockdown Validated
Recommended Dilutions	Western Blot 1:500-1:3000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunohistochemistry-Paraffin 1:100-1:1000, Knockdown Validated

Images

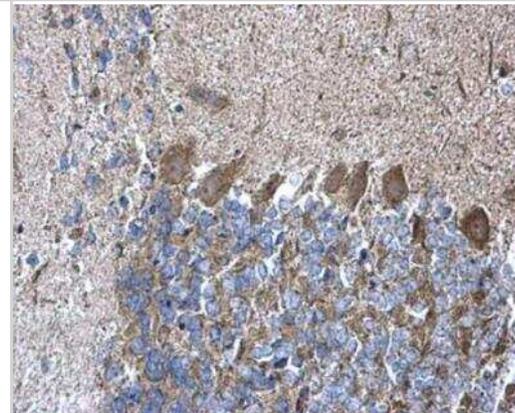
Western Blot: RPL5 Antibody [NBP1-31413] - Various whole cell extracts (30 ug) were separated by 12% SDS-PAGE, and the membrane was blotted with RPL5 antibody diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.



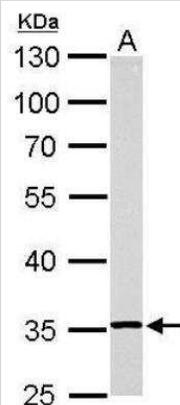
Immunocytochemistry/Immunofluorescence: RPL5 Antibody [NBP1-31413] - HepG2 cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: RPL5 protein stained by RPL5 antibody diluted at 1:500. Blue: Hoechst 33342 staining. Scale bar = 10 μ m.



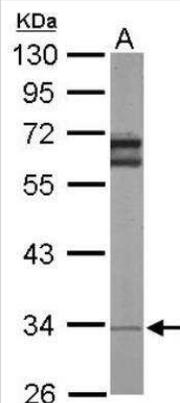
Immunohistochemistry-Paraffin: RPL5 Antibody [NBP1-31413] - Mouse hind brain. RPL5 antibody diluted at 1:500. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



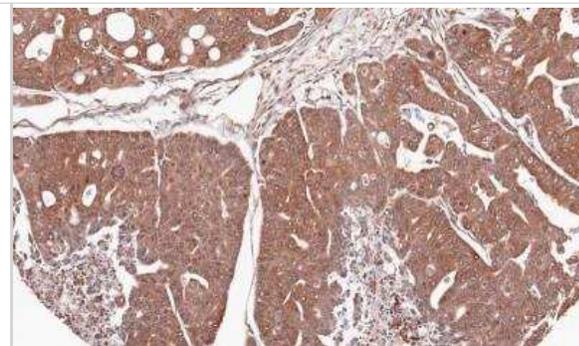
Western Blot: RPL5 Antibody [NBP1-31413] - A. 30 μ g Rat2 whole cell lysate/extract 10 % SDS-PAGE RPL5 antibody dilution: 1:1000



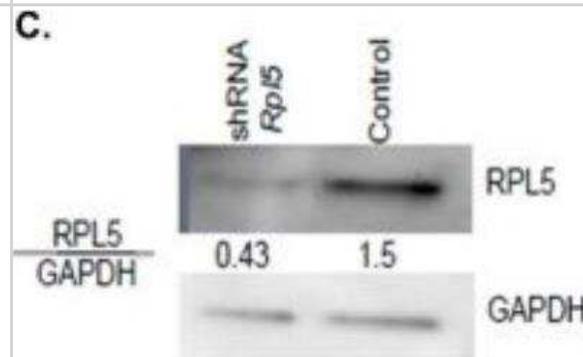
Western Blot: RPL5 Antibody [NBP1-31413] - A: Mouse brain 10% SDS PAGE diluted at 1:1000 The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.



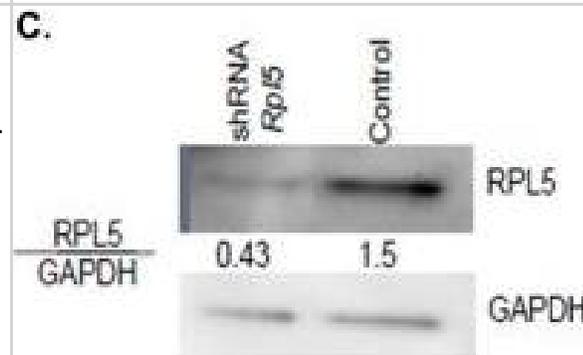
Immunohistochemistry-Paraffin: RPL5 Antibody [NBP1-31413] - Gastric CA N87 xenograft, using RPL5 antibody at 1:100 dilution. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



Western Blot: RPL5 Antibody [NBP1-31413] - Western Blot analysis of RPL5 protein expressions in CD71^{high}Ter119^{high} cells. There was a significant decrease in the expression level of RPL5 in the treated shRNA Rpl5 compared to the control mice. Image collected and cropped by CiteAb from the following publication (www.discoveriesjournals.org/discoveries/D.2019.03.DI-Kazerounian-Beggs.DOI) licensed under a CC-BY license.



Western Blot: RPL5 Antibody [NBP1-31413] - A. Methylcellulose colony assay on bone marrow cells from doxycycline treated shRNA Rpl5 & control mice (n=3), (CFU-E, P=0.0003; BFU-E, P=1; GFU-GM, P=0.3); B. FACS analysis of bone marrow cells from shRNA Rpl5 & control mice. Total bone marrow cells from shRNA Rpl5 (B.1) & control (B.2) mice; viable cells were gated for analysis & sorting. We used the cell-surface markers CD71 (Y-axis) & Ter119 (X-axis) to separate mature erythroblasts & erythroid precursors. The most mature erythroblasts are CD71^{low}Ter119^{high}, while the erythroid precursors are CD71^{high}Ter119^{intermediate} cells. In our FACS analysis the gated population comprises CD71^{high}Ter119^{med} cells (P4) & CD71^{high}Ter119^{high} cells (P5) from shRNA Rpl5 (B.3 & B.5) & control (B4 & B6) mice; the results here are collected from one mouse per group & are representative of 6 independent experiments; in each experiment, cells were collected from 1-3 mice for each group & sorted independently; C. Western Blot analysis of RPL5 protein expressions in CD71^{high}Ter119^{high} cells. There was a significant decrease in the expression level of RPL5 in the treated shRNA Rpl5 compared to the control mice; D. Western Blot analysis of GATA1 protein expressions in CD71^{high}Ter119^{high} cells. There was a significant decrease in the expression of GATA1 in the shRNA Rpl5 group compared to the control mice. In these experiments, GAPDH was used as a loading control, & they are representative of 3 independent experiments. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32309614>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Kazerounian S, Yuan D et al. Rpl5-Inducible Mouse Model for Studying Diamond-Blackfan Anemia. Discoveries (Craiova) 2019-09-30 [PMID: 32309614] (WB, Mouse)



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP1-31413

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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