

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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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 (pH 7), 20% Glycerol, 1% BSA |
| Target Molecular Weight | 34 kDa |

Product Description

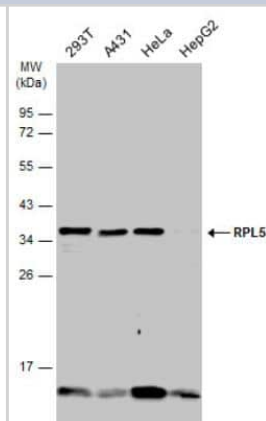
| | |
|-------------------------|---|
| Description | Novus Biologicals Rabbit RPL5 Antibody (NBP1-31413) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-RPL5 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| Host | Rabbit |
| 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

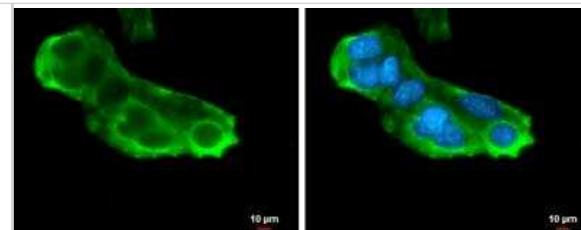
| | |
|------------------------------|---|
| Applications | Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Knockdown Validated |
| Recommended Dilutions | Western Blot 1:500-1:3000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence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

Images

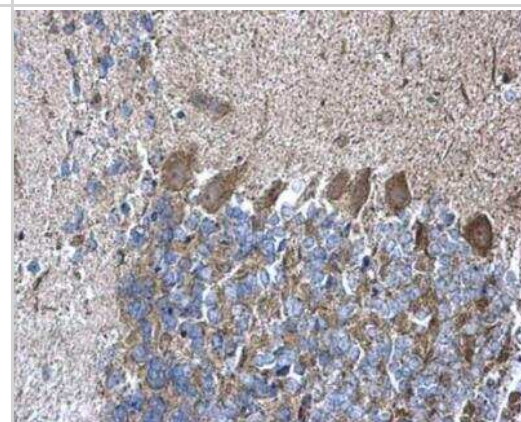
Western Blot: RPL5 Antibody [NBP1-31413] - Various whole cell extracts (30 ug) were separated by 12% SDS-PAGE, and the membrane was blotted with RPL5 antibody diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.



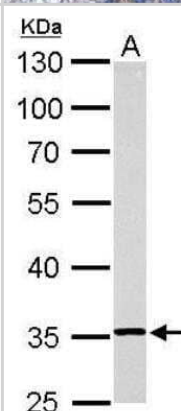
Immunocytochemistry/Immunofluorescence: RPL5 Antibody [NBP1-31413] - HepG2 cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: RPL5 protein stained by RPL5 antibody diluted at 1:500. Blue: Hoechst 33342 staining. Scale bar = 10 μ m.



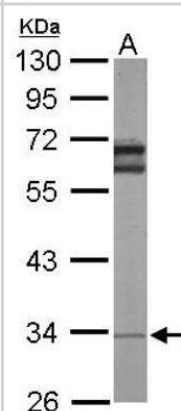
Immunohistochemistry-Paraffin: RPL5 Antibody [NBP1-31413] - Mouse hind brain. RPL5 antibody diluted at 1:500. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



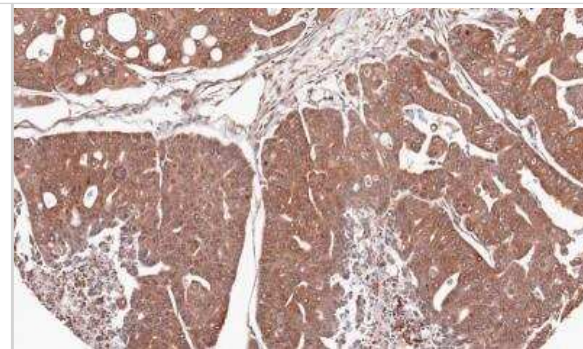
Western Blot: RPL5 Antibody [NBP1-31413] - A: 30 μ g Rat2 whole cell lysate/extract 10 % SDS-PAGE RPL5 antibody dilution: 1:1000



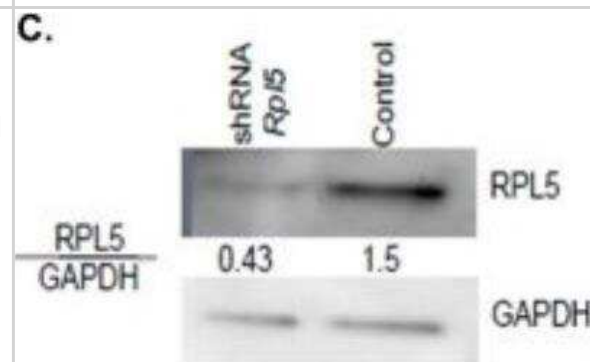
Western Blot: RPL5 Antibody [NBP1-31413] - A: Mouse brain 10% SDS PAGE diluted at 1:1000 The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.



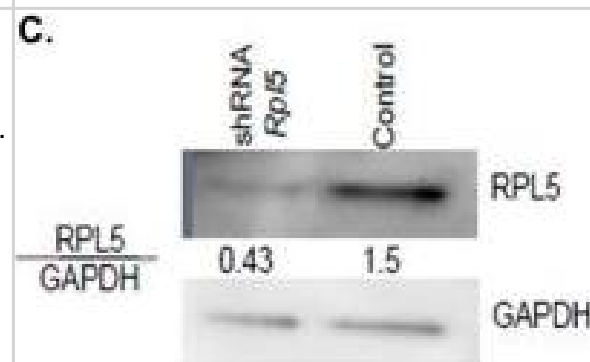
Immunohistochemistry-Paraffin: RPL5 Antibody [NBP1-31413] - Gastric CA N87 xenograft, using RPL5 antibody at 1:100 dilution. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



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 erythroids & 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)



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Products Related to NBP1-31413

| | |
|-------------------|---|
| HAF008 | Goat anti-Rabbit IgG Secondary Antibody [HRP] |
| NB7160 | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891 | Rabbit IgG Isotype Control |
| NBP2-51794-0.05mg | Recombinant Human RPL5 His Protein |

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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