

Product Datasheet

EXOSC3 Antibody - BSA Free

NBP2-22261

Unit Size: 100 ul

Store at 4C. Do not freeze.

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NBP2-22261

EXOSC3 Antibody - BSA Free

Product Information	
Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

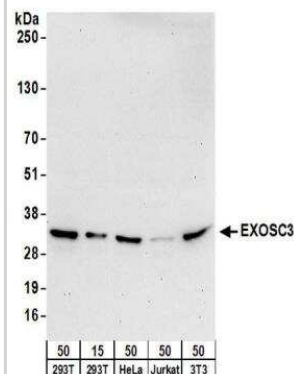
Product Description	
Host	Rabbit
Gene ID	51010
Gene Symbol	EXOSC3
Species	Human, Mouse, Chicken
Reactivity Notes	Chicken reactivity reported in (PMID: 24842995).
Immunogen	The immunogen this antibody was made to, maps to a region between residue 225 and 275 of human Exosome Component 3 using the numbering given in entry NP_057126.2 (GenelD 51010).

Product Application Details	
Applications	Western Blot, Immunoprecipitation
Recommended Dilutions	Western Blot 1:2000 - 1:10000, Immunoprecipitation 2 - 10 ug/mg

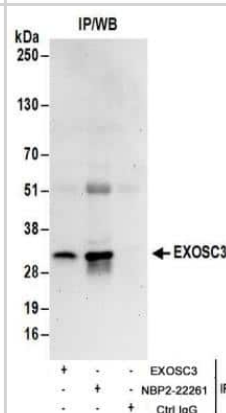


Images

Western Blot: EXOSC3 Antibody [NBP2-22261] - Whole cell lysate from 293T (15 and 50 ug), HeLa (50 ug), Jurkat (50 ug), and mouse NIH3T3 (50 ug) cells. NBP2-22261 used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.

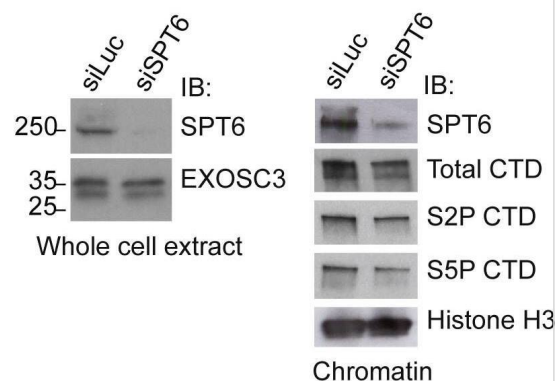


Immunoprecipitation: EXOSC3 Antibody [NBP2-22261] - Whole cell lysate (1 mg for IP; 20% of IP loaded) from 293T cells. Antibodies: NBP2-22261 used for IP at 6 ug/mg lysate. EXOSC3 was also immunoprecipitated by another rabbit anti-EXOSC3 antibody. For blotting immunoprecipitated EXOSC3, NBP2-22261 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



SPT6 Depletion Causes H3K36me3 Redistribution(A) Western blots with indicated antibodies 60 hr post-siSPT6 transfection (versus siLuc nonspecific control). EXOSC3 & H3 profiles shown as loading controls. (B) Meta-analysis of reads density (FPKM) for ratio of mNuc-seq/H3K36me3 with H3 at TSS of divergent PROMPT-pre-mRNA & enhancer RNA (eRNA) following SPT6 depletion. All subsequent transcription images employing siSPT6 versus siLuc are shown in red & blue, respectively.(C) Scatterplots of H3K36me3/H3 on pre-mRNA (0 to +3 kb), PROMPT (-3 kb to 0), & eRNA (-3 kb to +3 kb) regions in siLuc versus siSPT6. The percentage of upregulated regions by SPT6 depletion are indicated.(D) Boxplots of mNuc-seq/H3K36me3 ratio across pre-mRNA gene bodies, PROMPTs (3 kb from TSS), & eRNA (2 kb from center) & across lincRNA gene bodies.(E) Model of redistributed H3K36me3 marks caused by SPT6 depletion. See also Figure S2. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30449723>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

A Western Blot



Publications

Nojima T, Tellier M, Foxwell J et al. Deregulated Expression of Mammalian lncRNA through Loss of SPT6 Induces R-Loop Formation, Replication Stress, and Cellular Senescence. *Toxicol. Sci.* 2018-11-21 [PMID: 30449723] (Human)

Hsin JP, Li W, Hoque M et al. RNAP II CTD tyrosine 1 performs diverse functions in vertebrate cells. *Elife* (Cambridge) 2014-06-04 [PMID: 24842995] (WB, Chicken)

Details:

EXOSC3 antibody used for WB on lysates of 26r (DT40 cells derived Rpb1 derivative containing a CTD with 26 YSPTSPS repeats) and 25F+Y cells (Rpb1-Y1F derivative in which only a single F, in the C terminal-most heptad, was changed back to Y). WB data shown in Supplement Figure 4.



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Products Related to NBP2-22261

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-51715-0.01mg	Recombinant Human EXOSC3 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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