

# Product Datasheet

## EXOSC3 Antibody - BSA Free

### NBP2-22261

Unit Size: 100 ul

Store at 4C. Do not freeze.

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[technical@novusbio.com](mailto:technical@novusbio.com)

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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	
Description	Novus Biologicals Rabbit EXOSC3 Antibody - BSA Free (NBP2-22261) is a polyclonal antibody validated for use in WB and IP. Anti-EXOSC3 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
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 (GeneID 51010).

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

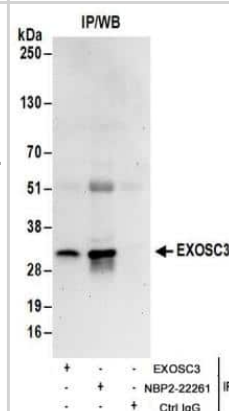


## Images

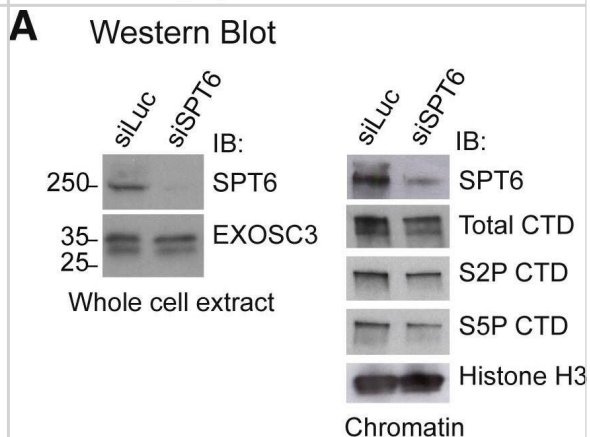
Western Blot: EXOSC3 Antibody [NBP2-22261] - Whole cell lysate from 293T (15 and 50 ug), HeLa (50 ug), Jurkat (50 ug), and mouse NIH3T3 (50 ug) cells. NBP2-22261 used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



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.



## Publications

Nojima T, Tellier M, Foxwell J et al. Deregulated Expression of Mammalian lincRNA 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.



### **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 NBP2-22261**

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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

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### **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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