

# Product Datasheet

## USP15 Antibody - BSA Free

### NB110-40690

Unit Size: 100 ul

Store at 4C. Do not freeze.

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**NB110-40690**

USP15 Antibody - BSA Free

**Product Information**

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

**Product Description**

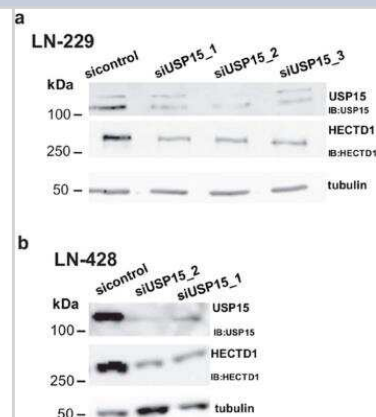
<b>Host</b>	Rabbit
<b>Gene ID</b>	9958
<b>Gene Symbol</b>	USP15
<b>Species</b>	Human, Mouse
<b>Immunogen</b>	The immunogen recognized by this antibody maps to a region between residue 960 and the C-terminus of human Ubiquitin Specific Peptidase 15 (AAD41086.1).

**Product Application Details**

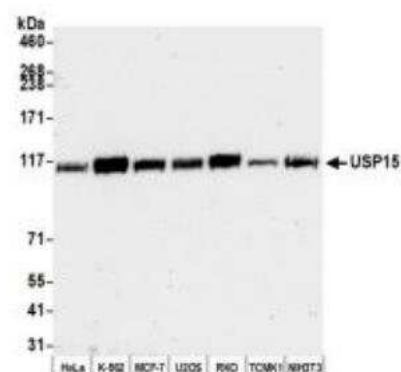
<b>Applications</b>	Western Blot, Immunoprecipitation, Knockdown Validated
<b>Recommended Dilutions</b>	Western Blot 1:2000 - 1:10000, Immunoprecipitation 2-10 ug/mg lysate, Knockdown Validated

**Images**

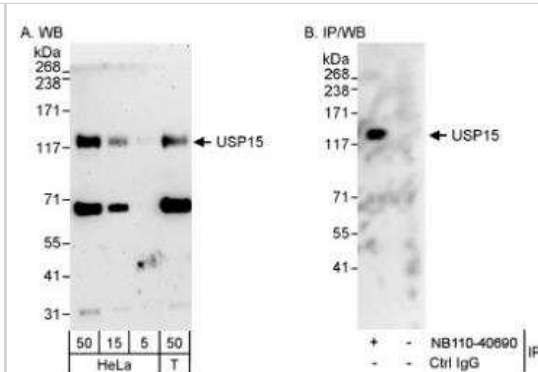
Western Blot: USP15 Antibody [NB110-40690] - USP15 knockdown with three siRNAs in LN-229 and (b) two siRNAs in LN-428. Image collected and cropped by CiteAb from the following publication (<https://www.oncotarget.com/lookup/doi/10.18632/oncotarget.22798>) licensed under a CC-BY license.



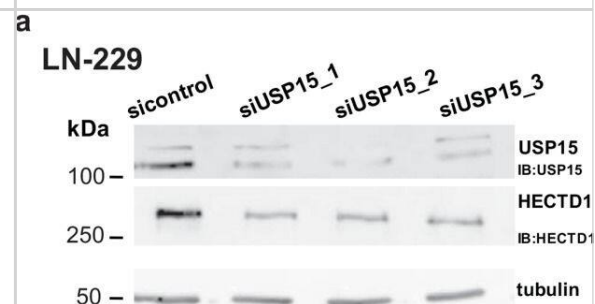
Western Blot: USP15 Antibody [NB110-40690] - Whole cell lysate (50 ug) from HeLa, K-562, MCF-7, U2OS, RKO, TCMK-1, and NIH 3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-USP15 antibody used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



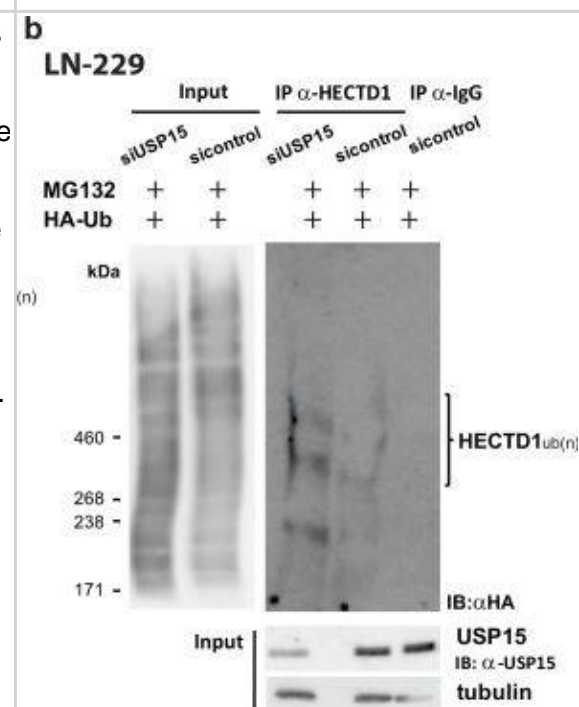
Western Blot: USP15 Antibody [NB110-40690] - Whole cell lysate from HeLa (5, 15 and 50 mcg for WB; 1 mg for IP, 20% of IP loaded) and 293T (T; 50 mcg) cells. Affinity purified rabbit anti- USP15 antibody NB110-40690 used for WB at 0.4 mcg/ml (A) and 1.0 mcg/ml (B) and used for IP at 3 mcg/mg lysate (B).



Western Blot: USP15 Antibody [NB110-40690] - USP15 knockdown leads to decreased HECTD1 protein levels(a) USP15 knockdown with three siRNAs in LN-229 & (b) two siRNAs in LN-428. Image collected & cropped by CiteAb from the following publication (<https://www.oncotarget.com/lookup/doi/10.18632/oncotarget.22798>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: USP15 Antibody [NB110-40690] - USP15 de-ubiquitinates & stabilizes HECTD1 in LN-229The de-ubiquitination assay was performed in cells transfected with an expression plasmid for HA-Ubiquitin that 40 hours after transfection were treated for 8 hours with the proteasome inhibitor MG132 (5μM). The cells were lysed & used for IP using an antibody against the endogenous HECTD1, or an AB against rabbit IgG in the negative control. The immunoprecipitated proteins were then analyzed by Western blot using an anti HA antibody to detect ubiquitination. (a) LN-229 cells stably expressing USP15, the mutant USP15C/S, or the empty vector control, respectively. Lanes 1 to 3 correspond to the input controls. The USP15 wt overexpressing LN-229 cells show lower ubiquitination levels of HECTD1 than the vector control. The mutant USP15-C/S overexpressing cells displayed the highest ubiquitination of HECTD1. (b) De-ubiquitination assay in LN-229 depleted for endogenous USP15 by siRNA against USP15 or the respective si-control. LN-229 cells depleted for endogenous USP15 display higher ubiquitination of HECTD1 than the sicontrol cells. Image collected & cropped by CiteAb from the following publication (<https://www.oncotarget.com/lookup/doi/10.18632/oncotarget.22798>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: USP15 Antibody [NB110-40690] - Effect of USP15 on cell growth in LN-229(a) Structure of the wildtype USP15 construct with the V5 protein tag, & the respective catalytic mutant USP15C298S. (b) Protein expression by Western blot using an anti-V5 AB, loading control tubulin for the selected clones from LN-229 & LN-428 with stable expression of USP15, or USP15C298S (USPC/S), or empty vector controls. (c) Growth of USP15, or USP15C298S (USPC/S) overexpressing clones, & respective empty vector control (pIRES2/EGFP) followed over 5 days in culture. The error bars indicate standard deviations of triplicate samples. (d) Adhesion-independent growth in soft agar, representative images, & quantification of total colony numbers. Empty vector control, eV, black; USP15, blue; USP15C/S, green. Histogram shows data as mean  $\pm$  SD. Image collected & cropped by CiteAb from the following publication (<https://www.oncotarget.com/lookup/doi/10.18632/oncotarget.22798>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Oikonomaki M, Bady P, et al. Ubiquitin Specific Peptidase 15 (USP15) suppresses glioblastoma cell growth via stabilization of HECTD1 E3 ligase attenuating WNT pathway activity. *Oncotarget* 2017-12-15 [PMID: 29299163] (IP, Human)

Isumi Y, Hirata T, Saitoh H et al. Transgenic overexpression of USP15 in the heart induces cardiac remodeling in mice. *Biochem Biophys Res Commun* 2011-02-01 [PMID: 21219870]

Goncharov T, Niessen K, de Almagro MC et al. OTUB1 modulates c-IAP1 stability to regulate signalling pathways *EMBO J* 2013-03-22 [PMID: 23524849] (WB, Human)





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### **Products Related to NB110-40690**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-58886PEP	USP15 Recombinant Protein Antigen

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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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