

Product Datasheet

USP46 Antibody - BSA Free NBP1-82293

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-82293

USP46 Antibody - BSA Free

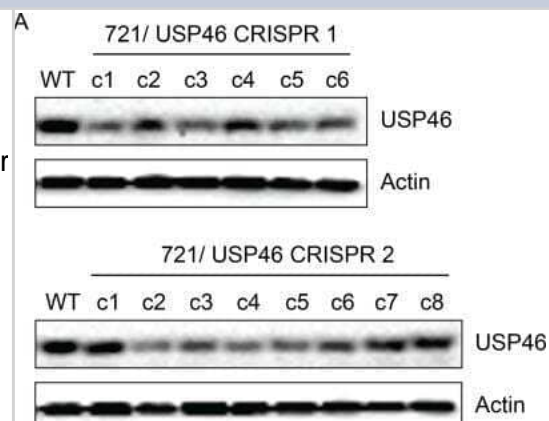
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol
Target Molecular Weight	42 kDa

Product Description	
Host	Rabbit
Gene ID	64854
Gene Symbol	USP46
Species	Human
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: LFDNYMQQDAHEFLNYLLNTIADILQEEKKQEKQNGKLNKNGNMNEPAENNKPE LTWVHEIFQGTLTNETRCLNCETVSSKDEDFDLDSVDVEQN

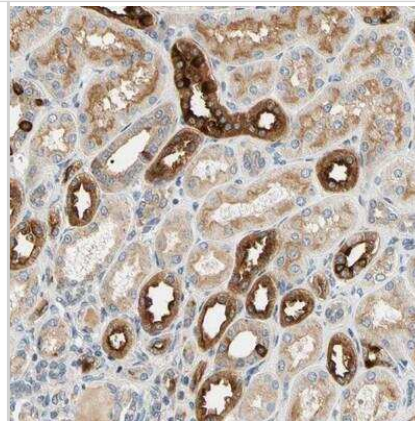
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot Reported in scientific literature (PMID: 25855980), Immunohistochemistry 1:200 - 1:500, Immunoprecipitation reported in scientific literature (PMID: 25855980), Immunohistochemistry-Paraffin 1:200 - 1:500, Chromatin Immunoprecipitation (ChIP) Reported in scientific literature (PMID: 25855980)
Application Notes	IHC-Paraffin, HIER pH 6 retrieval is recommended.

Images

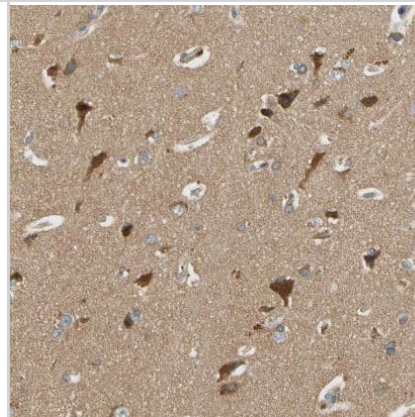
Western Blot: USP46 Antibody [NBP1-82293] - Western blot for USP46 in 721 LCLs cells transfected with a plasmid expressing either of two guide RNAs targeting different USP46 exons (CRISPR 1 or CRISPR 2) and a hygromycin resistance gene. Prior to harvesting, cells were subjected to hygromycin selection for one month (resulting in 6 clones for CRISPR 1 and 8 clones CRISPR 2). Untransfected 721 cells are also shown (WT). As a loading control, lysates were probed for beta actin (bottom panel). Image collected and cropped by CiteAb from the following publication ([//pubmed.ncbi.nlm.nih.gov/25855980/](https://pubmed.ncbi.nlm.nih.gov/25855980/)) licensed under a CC-BY license.



Immunohistochemistry-Paraffin: USP46 Antibody [NBP1-82293] - Staining of human kidney shows strong cytoplasmic positivity in cells in tubules.



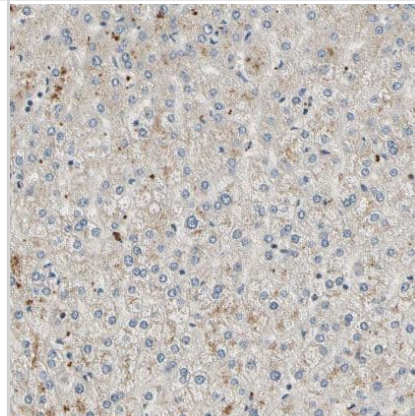
Immunohistochemistry-Paraffin: USP46 Antibody [NBP1-82293] - Staining of human Cerebral cortex shows moderate cytoplasmic positivity in neuronal cells.



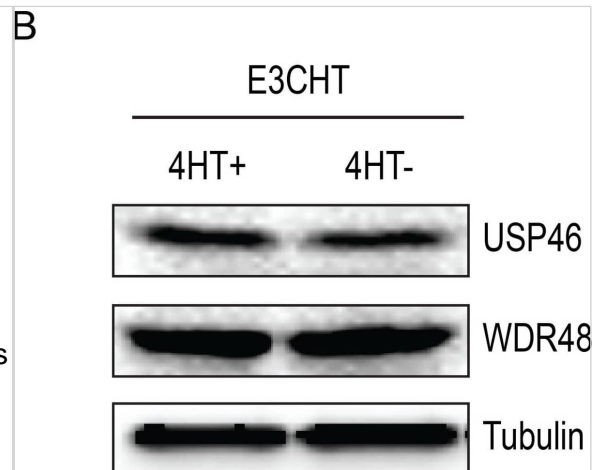
Immunohistochemistry-Paraffin: USP46 Antibody [NBP1-82293] - Staining of human Skeletal muscle shows moderate cytoplasmic positivity in myocytes.



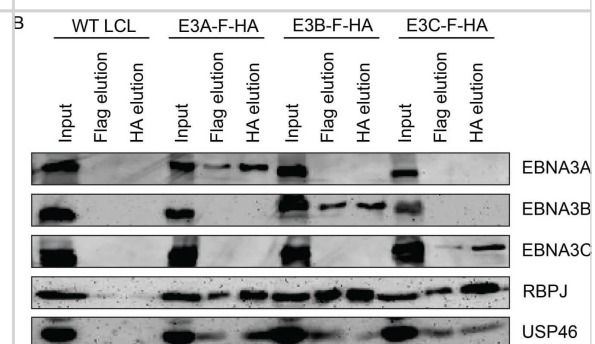
Immunohistochemistry-Paraffin: USP46 Antibody [NBP1-82293] - Staining of human Liver shows very weak cytoplasmic positivity in hepatocytes.



ChIP assay for WDR48 at the p14ARF promoter. Chromatin immunoprecipitation (ChIP) assays were performed using antibodies for WDR48 (A) from EBNA3C-HT LCLs that were grown in the presence of 4HT (dark gray) or after 14 days of growth in the absence of 4HT (light gray). Amount of genomic DNA was measured by real time PCR using primers specific to the EBNA3C binding site in the p14ARF promoters or sites near the EIF2AK3 & PPIA genes which bind cell transcription factors but not EBNA3C. The bar graph represents the amount of DNA precipitated relative to the amount of DNA in the corresponding input sample. The experiment shown is representative of four independent experiments & error bars indicating standard error of the mean within this experiment. Asterisk denotes that the difference in ChIP signal seen at the p14ARF promoter is statistically significant ($p = 0.01$). (B) Western blot for USP46, WDR48, & tubulin levels in whole cell lysates from EBNA3CHT LCLs grown in the presence of 4HT or after 14 days of growth in the absence of 4HT. Image collected & cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.ppat.1004822>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: USP46 Antibody [NBP1-82293] - Purified EBNA3 complexes exhibit DUB activity. (A) Tandem affinity purification was performed on wild type or EBNA3-F-HA expressing LCLs. Purified complexes from wild type (X), E3A-F-HA (closed circle), E3B-F-HA (closed triangle), or E3C-F-HA (closed square) LCLs were assayed for DUB activity by fluorometric assay using Ub-AMC as a substrate. (B) Western blot of purified EBNA3 complexes used in (A) demonstrating selective precipitation of tagged EBNA3 protein complexes & co-purification of RBPJ & USP46 proteins. Lysates derived from the equivalent of approximately 1.5×10^6 cells (input), 2.4×10^6 cells (Flag elution), or 10×10^6 cells (HA elution) were loaded on each lane, separated by SDS PAGE, & probed with EBNA3s, Flag, EBNA3A, & HA antibodies. Image collected & cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.ppat.1004822>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Ohashi M, Holthaus AM, Calderwood MA et al. The EBNA3 Family of Epstein-Barr Virus Nuclear Proteins Associates with the USP46/USP12 Deubiquitination Complexes to Regulate Lymphoblastoid Cell Line Growth. PLoS Pathog 2015-04-01 [PMID: 25855980] (IP, Chemotaxis, WB)



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Products Related to NBP1-82293

NBP1-82293PEP	USP46 Recombinant Protein Antigen
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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