

Product Datasheet

USP47 Antibody - BSA Free

NBP1-85942

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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Publications: 1

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NBP1-85942

USP47 Antibody - BSA Free

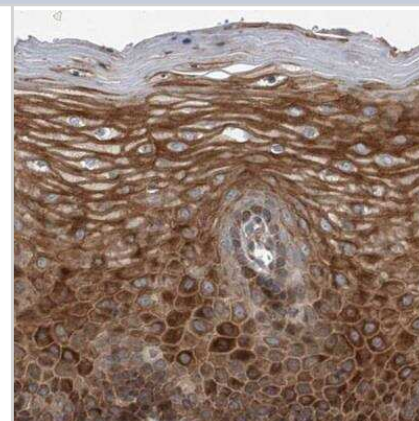
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium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

Product Description	
Description	Novus Biologicals Rabbit USP47 Antibody - BSA Free (NBP1-85942) is a polyclonal antibody validated for use in IHC and WB. Anti-USP47 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	55031
Gene Symbol	USP47
Species	Human
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: IENAAEEPRVLCIIQDTTNSKTVNERITLNLPASTPVRKLFEDVANKVGYINGTFD LVWGN GINTADMAPLDHTSDKSLLDANFEPGK

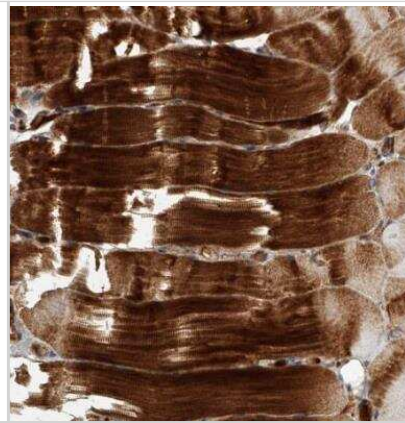
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:20 - 1:50, Immunohistochemistry-Paraffin 1:20 - 1:50
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

Images

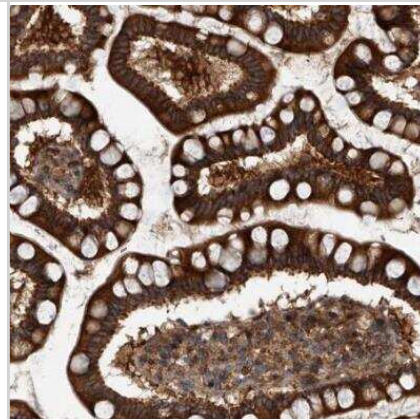
Immunohistochemistry-Paraffin: USP47 Antibody [NBP1-85942] - Staining of human cervix shows strong cytoplasmic positivity in squamous epithelial cells.



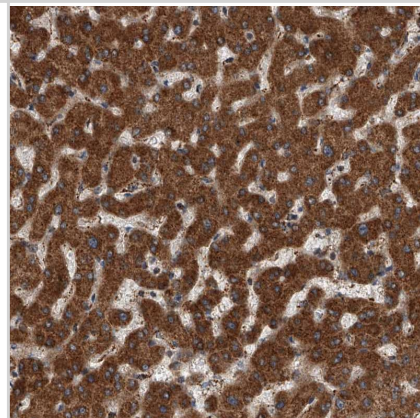
Immunohistochemistry-Paraffin: USP47 Antibody [NBP1-85942] - Staining of human skeletal muscle shows strong cytoplasmic positivity in myocytes.



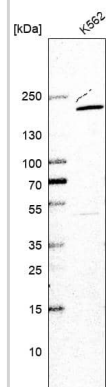
Immunohistochemistry-Paraffin: USP47 Antibody [NBP1-85942] - Staining of human small intestine shows strong cytoplasmic positivity in glandular cells.



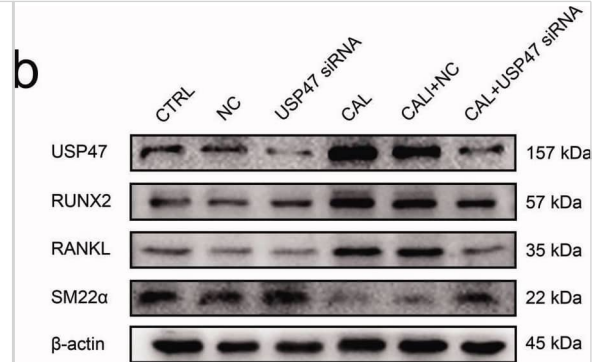
Staining of human liver shows strong cytoplasmic positivity in hepatocytes.



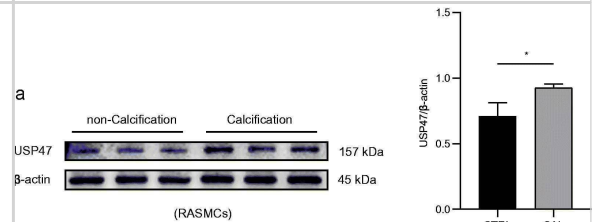
Analysis in human cell line K562.



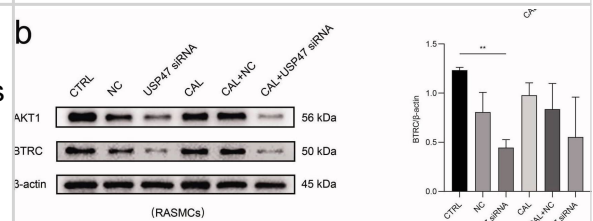
The impact of calcification with knockdown of USP47 proteins in RASMCs. (a) The level of calcification according to real-time PCR in the control group (CTRL), the negative control group (NC), and the USP47 siRNA-transfected group (USP47 siRNA) with or without calcification (CAL). One-way analysis of variance (ANOVA) was used, * $p < 0.05$, ** $p < 0.01$. (b) The expression levels of USP47, RUNX2, RANKL and SM22 α in USP47 siRNA RASMCs according to immunoblotting. (c) Von kossa staining of USP47 siRNA RASMCs cultured in a high phosphorus environment for 72 h. The scale bar represents 50 μm . Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35509185>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



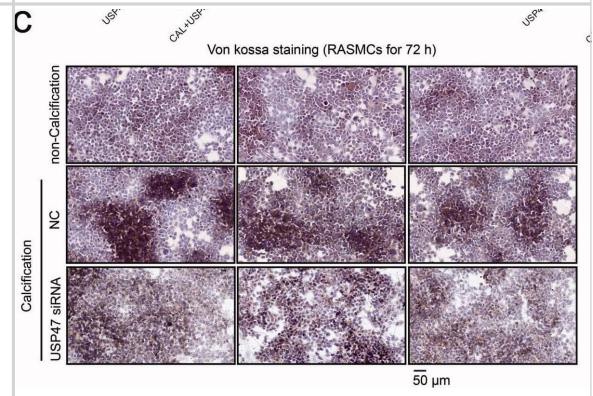
Increased expression of USP47 in CKD vascular calcification in vivo and vitro. (a) The expression levels of USP47 as assayed by immunoblotting in a high phosphorus environment for 72 h in RASMCs. The Student's unpaired t-test analysis was used, * $p < 0.05$. $n = 3$ for each group. (b) Alizarin red staining of CKD rat abdominal aortas and CKD patient radial arteries. (c) Representative immunohistochemical staining of USP47 in aortas of CKD rats and in the radial arteries of CKD patients. Arrows mark USP47 positive areas. The scale bar corresponds to sizes from 20 to 50 μm . Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35509185>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



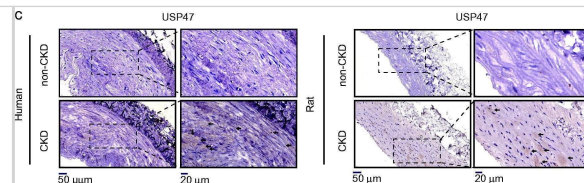
Bioinformatics analysis. (a) The protein-protein interactions network enrichment analysis. (b) The expression levels of BTRC and AKT1 in USP47 siRNA RASMCs according to immunoblotting in high phosphorus environment for 72 h. One-way analysis of variance (ANOVA) was used, * $p < 0.05$, ** $p < 0.01$. (c) The levels of FGF23, Klotho (KL), and MGP in USP47 siRNA-transfected cells according to real-time PCR in high phosphorus environment for 72 h. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35509185>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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Publications

Xiao Q, Tang Y, Xia J et al. Ubiquitin-specific protease 47 is associated with vascular calcification in chronic kidney disease by regulating osteogenic transdifferentiation of vascular smooth muscle cells *Renal Failure* 2022-12-31 [PMID: 35509185]



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Products Related to NBP1-85942

NBP1-85942PEP	USP47 Recombinant Protein Antigen
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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