

Product Datasheet

WWP1 Antibody (1A7) - Azide and BSA Free H00011059-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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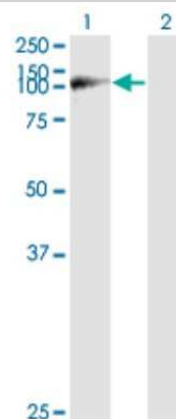


H00011059-M01**WWP1 Antibody (1A7) - Azide and BSA Free**

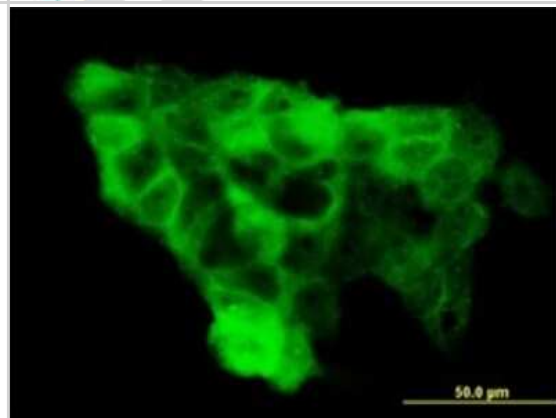
Product Information	
Unit Size	0.1 mg
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	1A7
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	Ascites
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Novus Biologicals Mouse WWP1 Antibody (1A7) - Azide and BSA Free (H00011059-M01) is a monoclonal antibody validated for use in IHC, WB, ELISA, ICC/IF and IP. Anti-WWP1 Antibody: Cited in 19 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	11059
Gene Symbol	WWP1
Species	Human, Primate
Reactivity Notes	Primate reactivity reported in scientific literature (PMID: 23573293).
Specificity/Sensitivity	WWP1 - WW domain containing E3 ubiquitin protein ligase 1 (1A7)
Immunogen	WWP1 (NP_008944, 152 a.a. ~ 260 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. CSSSPTIEIQENGDALHENGEP SARTTARLAVEGTNGIDNHVPTSTLVQNSCCS YVNGDNT P S S P S Q V A A R P K N T P A P K P L A S E P A D D T V N G E S S S F A P T D N A S V T G T
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500, ELISA, Immunohistochemistry, Immunocytochemistry/Immunofluorescence 10ug/mL, Immunoprecipitation, Immunohistochemistry-Paraffin 3ug/mL
Application Notes	Antibody reactive against cell lysate and recombinant protein for Western Blot. Has also been used for immunofluorescence, immunohistochemistry (paraffin), and ELISA.

Images

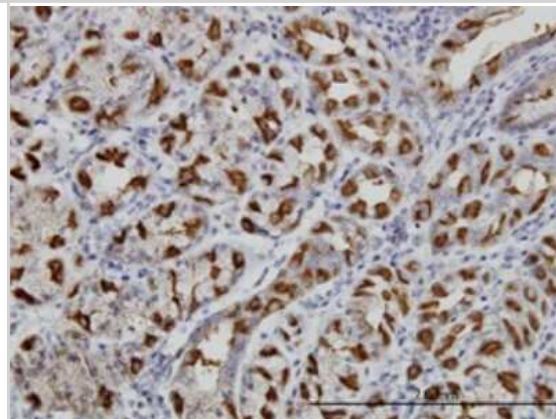
Western Blot: WWP1 Antibody (1A7) [H00011059-M01] - Analysis of WWP1 expression in transfected 293T cell line by WWP1 monoclonal antibody (M01A), clone 1A7. Lane 1: WWP1 transfected lysate(105.2 KDa). Lane 2: Non-transfected lysate.



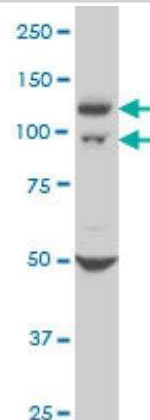
Immunocytochemistry/Immunofluorescence: WWP1 Antibody (1A7) [H00011059-M01] - Analysis of monoclonal antibody to WWP1 on A-431 cell. Antibody concentration 10 ug/ml.



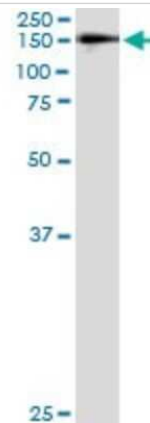
Immunohistochemistry-Paraffin: WWP1 Antibody (1A7) [H00011059-M01] - Analysis of monoclonal antibody to WWP1 on formalin-fixed paraffin-embedded human stomach. Antibody concentration 3 ug/ml.



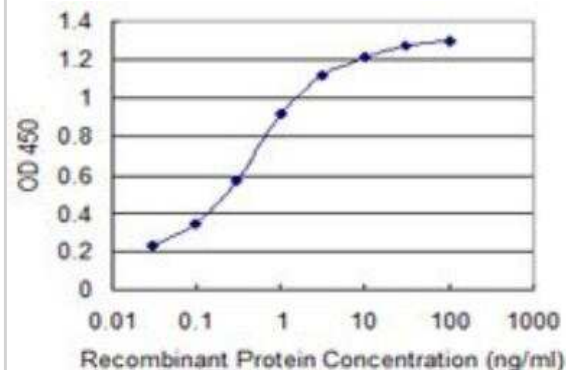
Western Blot: WWP1 Antibody (1A7) [H00011059-M01] - WWP1 expression in A-431 (Cat # L015V1).



Immunoprecipitation: WWP1 Antibody (1A7) [H00011059-M01] - Analysis of WWP1 transfected lysate using anti-WWP1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with WWP1 MaxPab rabbit polyclonal antibody.

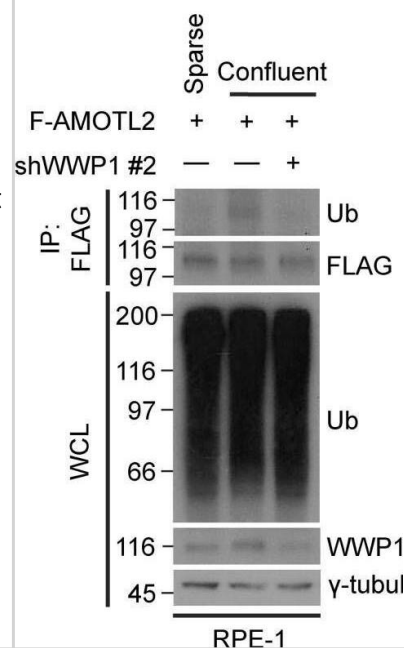


ELISA: WWP1 Antibody (1A7) [H00011059-M01] - Detection limit for recombinant GST tagged WWP1 is 0.03 ng/ml as a capture antibody.

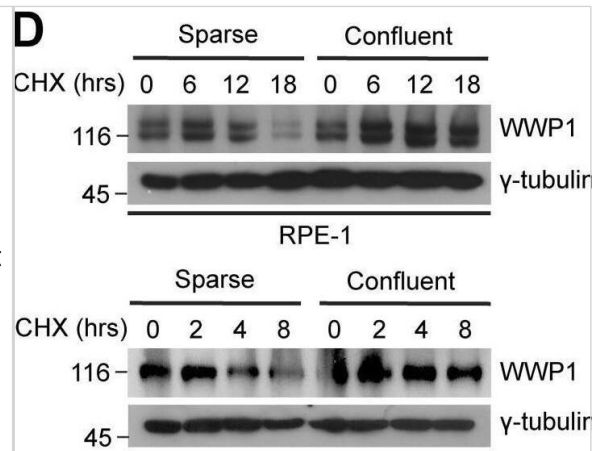


High cell density promotes WWP1 stabilization and activation. (A) RPE-1 cells were stably transduced with FLAG-AMOTL2 and either control or WWP1 shRNAs, re-seeded to a sparse or confluent density, then subjected to in vivo ubiquitination assays. (B) mRNAs isolated from MCF10A and 293Ad cells, seeded at either a sparse or confluent density, were analyzed for the indicated genes by qRT-PCR, and expression levels were normalized to those of GAPDH mRNA ($n = 4$). Data are expressed as means \pm SEM (error bars; *** $P < 0.001$, n.s. not significant; unpaired t test). (C) MCF10A cells stably transduced with shGFP (control) or shWWP1 lentiviruses were seeded at either a sparse or confluent density and extracts were analyzed by Western blotting. (D) RPE-1 and 293Ad cells were seeded at either a sparse or confluent density, then a cycloheximide (CHX) chase assay was performed for the indicated times. The resulting extracts were analyzed by Western blotting. (E) 293Ad cells were seeded at either sparse or confluent densities and extracts were subjected to S100/P100 membrane-cytosol fractionation assays. The resulting fractions were analyzed for the indicated proteins by Western blotting. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/34404733>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

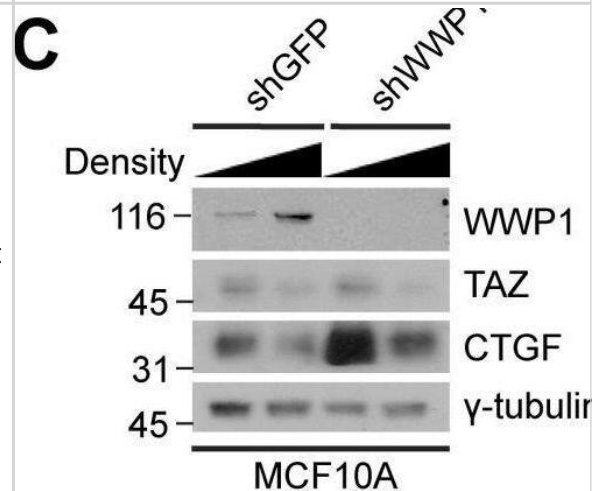
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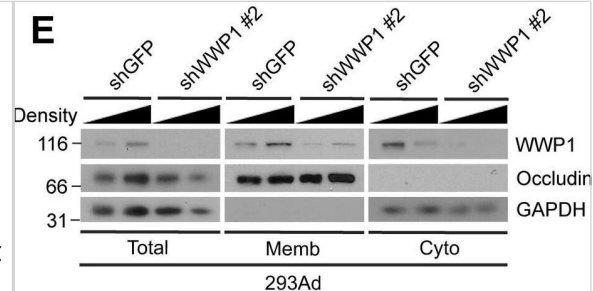
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WWP1 promotes AMOTL2 phosphorylation by LATS. (A) 293T cells stably transduced with shGFP (control) or shWWP1 lentiviruses were transfected with the indicated DNAs, then lysates were analyzed by Western blotting. (B) 293T cells were transfected with the indicated DNAs, then lysates were analyzed by Western blotting. (C) 293T cells were transfected with the indicated DNAs, then lysates were analyzed by Western blotting. (D) Control or CRISPR/Cas9-mediated LATS1/2-knockout 293T cells were transfected with the indicated DNAs, then lysates were subjected to in vivo ubiquitination assay. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/34404733>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Novelli G, Liu J, Biancolella M et al. Inhibition of HECT E3 ligases as potential therapy for COVID-19 Cell death & disease 2021-03-24 [PMID: 33762578]

CP Nielsen, KK Jernigan, NL Diggins, DJ Webb, JA MacGurn USP9X Deubiquitylates DVL2 to Regulate WNT Pathway Specification Cell Rep, 2019-07-23;28(4):1074-1089.e5. 2019-07-23 [PMID: 31340145]

Y Wu, J Qin, F Li, C Yang, Z Li, Z Zhou, H Zhang, Y Li, X Wang, R Liu, Q Tao, W Chen, C Chen USP3 promotes breast cancer cell proliferation by deubiquitinating KLF5 J. Biol. Chem., 2019-10-17;0(0):. 2019-10-17 [PMID: 31624151]

Kishikawa T, Higuchi H, Wang L et al. WWP1 inactivation enhances efficacy of PI3K inhibitors while suppressing their toxicities in breast cancer models The Journal of clinical investigation 2021-12-15 [PMID: 34907909] (WB, Human)

Hwang D, Kim M, Kim S Et al. AMOTL2 mono-ubiquitination by WWP1 promotes contact inhibition by facilitating LATS activation Life science alliance 2021-10-01 [PMID: 34404733] (IP, WB)

Lee YR, Chen M, Lee JD, Zhang J et al. Reactivation of PTEN tumor suppressor for cancer treatment through inhibition of a MYC-WWP1 inhibitory pathway Science 2019-05-17 [PMID: 31097636]

Chen JJ, Zhang W., et al. High expression of WWP1 predicts poor prognosis and associates with tumor progression in human colorectal cancer. Am J Cancer Res 2018-02-01 [PMID: 29511596]

Qin J, Zhou Z, Chen W et al. BAP1 promotes breast cancer cell proliferation and metastasis by deubiquitinating KLF5. Nat Commun 2015-01-01 [PMID: 26419610] (WB)

Ge F, Chen W, Qin J et al. Ataxin-3 like (ATXN3L), a member of the Josephin family of deubiquitinating enzymes, promotes breast cancer proliferation by deubiquitinating Kruppel-like factor 5 (KLF5). Oncotarget 2015-08-28 [PMID: 26079537]

Cao X, Xue L, Han L et al. WWP1 delays cellular senescence by promoting p27Kip1 degradation in human diploid fibroblasts. J Biol Chem. 2011-07-27 [PMID: 21795702]

Cheng Q, Cao X, Yuan F et al. Knockdown of WWP1 inhibits growth and induces apoptosis in hepatoma carcinoma cells through the activation of caspase3 and p53. Biochem Biophys Res Commun. 2014-05-01 [PMID: 24792179]

Chaudhary N, Maddika S. WWP2-WWP1 Ubiquitin Ligase Complex Coordinated by PPM1G Maintains the Balance Between Cellular p73 and deltaNp73 Levels. Mol Cell Biol. 2014-07-28 [PMID: 25071155]

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NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)

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