

## WWP1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant WWP1.

Catalog # AT4546a

### Specification

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#### WWP1 Antibody (monoclonal) (M01) - Product Information

Application	IF, IP, WB, IHC, E
Primary Accession	<a href="#">O9H0M0</a>
Other Accession	<a href="#">NM_007013</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	105202

#### WWP1 Antibody (monoclonal) (M01) - Additional Information

Gene ID 11059

##### Other Names

NEDD4-like E3 ubiquitin-protein ligase WWP1, 632-, Atrophin-1-interacting protein 5, AIP5, TGIF-interacting ubiquitin ligase 1, Tiul1, WW domain-containing protein 1, WWP1

##### Target/Specificity

WWP1 (NP\_008944, 152 a.a. ~ 260 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

##### Dilution

WB~~1:500~1000

##### Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

##### Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

##### Precautions

WWP1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

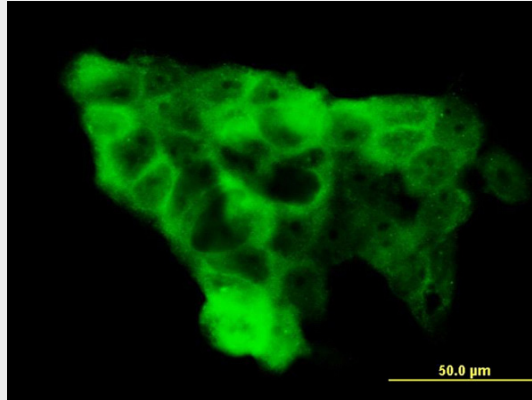
#### WWP1 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

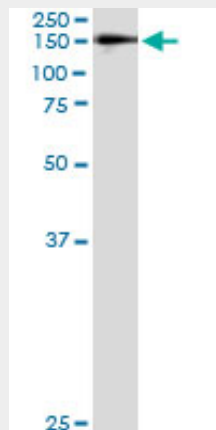
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

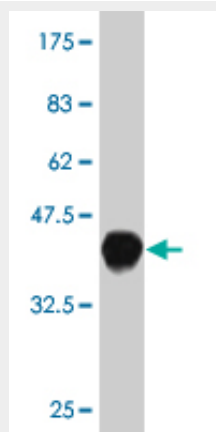
### WWP1 Antibody (monoclonal) (M01) - Images



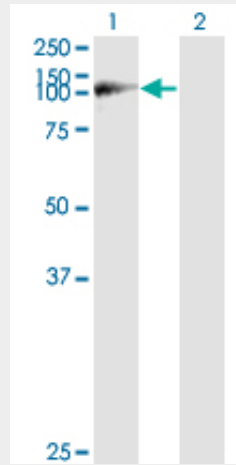
Immunofluorescence of monoclonal antibody to WWP1 on A-431 cell. [antibody concentration 10 ug/ml]



Immunoprecipitation of WWP1 transfected lysate using anti-WWP1 monoclonal antibody and Protein A Magnetic Bead ([U0007](#)), and immunoblotted with WWP1 MaxPab rabbit polyclonal antibody.

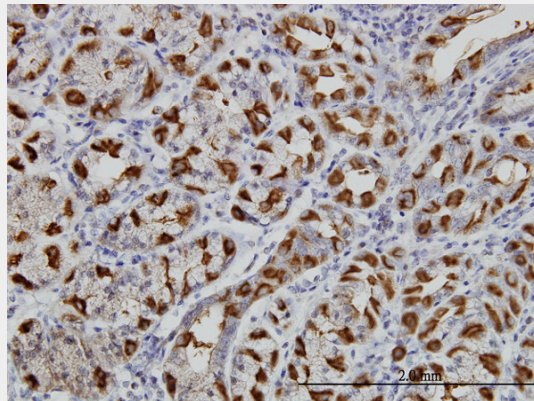


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.73 KDa) .

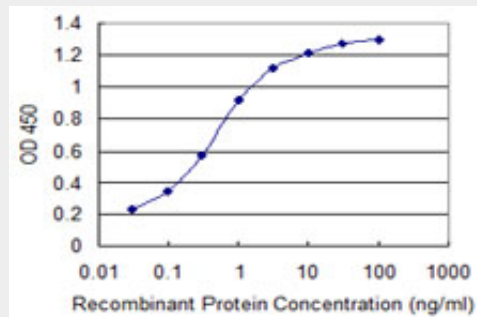


Western Blot analysis of WWP1 expression in transfected 293T cell line by WWP1 monoclonal antibody (M01), clone 1A7.

Lane 1: WWP1 transfected lysate(105.2 KDa).  
Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to WWP1 on formalin-fixed paraffin-embedded human stomach. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged WWP1 is 0.03 ng/ml as a capture antibody.

### WWP1 Antibody (monoclonal) (M01) - Background

WW domain-containing proteins are found in all eukaryotes and play an important role in the regulation of a wide variety of cellular functions such as protein degradation, transcription, and RNA

splicing. This gene encodes a protein which contains 4 tandem WW domains and a HECT (homologous to the E6-associated protein carboxyl terminus) domain. The encoded protein belongs to a family of NEDD4-like proteins, which are E3 ubiquitin-ligase molecules and regulate key trafficking decisions, including targeting of proteins to proteosomes or lysosomes. Alternative splicing of this gene generates at least 6 transcript variants; however, the full length nature of these transcripts has not been defined.

### **WWP1 Antibody (monoclonal) (M01) - References**

1. Knockdown of WWP1 inhibits growth and induces apoptosis in hepatoma carcinoma cells through the activation of caspase3 and p53. Cheng Q, Cao X, Yuan F, Li G, Tong T. *Biochem Biophys Res Commun.* 2014 May 1. pii: S0006-291X(14)00780-3. doi: 10.1016/j.bbrc.2014.04.117.2. WWP1 delays cellular senescence by promoting p27Kip1 degradation in human diploid fibroblasts. Cao X, Xue L, Han L, Ma L, Chen T, Tong T. *J Biol Chem.* 2011 Jul 27. [Epub ahead of print].3. The E3 ubiquitin ligase WWP1 regulates  $\beta$ GNP63-dependent transcription through Lys63 linkages. Peschiaroli A, Scialpi F, Bernassola F, Sherbini el SE, Melino G. *Biochem Biophys Res Commun.* 2010 Nov 12;402(2):425-30. Epub 2010 Oct 15.4. Endogenous spartin (SPG20) is recruited to endosomes and lipid droplets and interacts with the ubiquitin E3 ligases AIP4 and AIP5. Edwards TL, Clowes VE, Tsang HT, Connell JW, Sanderson CM, Luzio JP, Reid E. *Biochem J.* 2009 Sep 14;423(1):31-9.