

## USP15 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant USP15.

Catalog # AT4484a

### Specification

#### USP15 Antibody (monoclonal) (M01) - Product Information

Application	IF, WB
Primary Accession	<a href="#">Q9Y4E8</a>
Other Accession	<a href="#">BC020688</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 kappa
Calculated MW	112419

#### USP15 Antibody (monoclonal) (M01) - Additional Information

Gene ID 9958

#### Other Names

Ubiquitin carboxyl-terminal hydrolase 15, Deubiquitinating enzyme 15, Ubiquitin thioesterase 15, Ubiquitin-specific-processing protease 15, Unph-2, Unph4, USP15, KIAA0529

#### Target/Specificity

USP15 (AAH20688, 1 a.a. ~ 235 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

#### Dilution

WB~~1:500~1000

#### Format

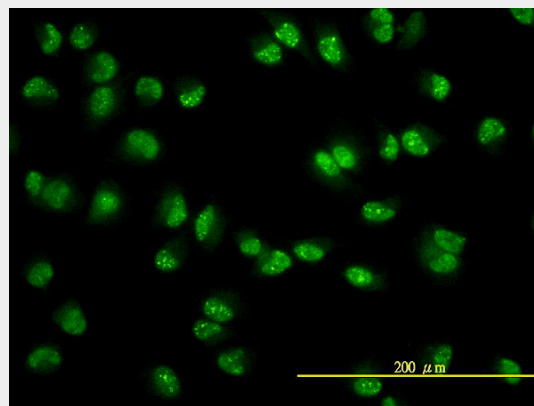
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

#### Storage

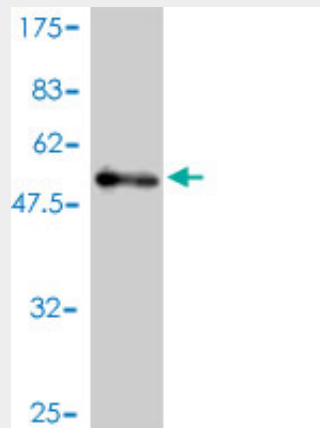
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

#### Precautions

USP15 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.



Immunofluorescence of monoclonal antibody to USP15 on HeLa cell. [antibody concentration 10 ug/ml]



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (51.59 KDa) .

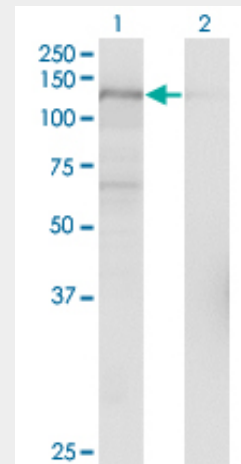
## USP15 Antibody (monoclonal) (M01) - Protocols

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](#)



USP15 monoclonal antibody (M01), clone 1C10 Western Blot analysis of USP15 expression in HepG2 ( (Cat # AT4484a )



Western Blot analysis of USP15 expression in transfected 293T cell line by USP15 monoclonal antibody (M01), clone 1C10.

Lane 1: USP15 transfected lysate (Predicted MW: 109.3 KDa).

Lane 2: Non-transfected lysate.

## USP15 Antibody (monoclonal) (M01) - Background

Ubiquitin (MIM 191339), a highly conserved protein involved in the regulation of intracellular protein breakdown, cell cycle regulation, and stress response, is released from degraded proteins by disassembly of the polyubiquitin chains. The disassembly process is mediated by ubiquitin-specific proteases (USPs). Also see USP1 (MIM 603478).

## USP15 Antibody (monoclonal) (M01) -

## References

1. The Ubiquitin-Specific Protease USP15 Promotes RIG-I-Mediated Antiviral Signaling by Deubiquitylating TRIM25. Pauli EK, Chan YK, Davis ME, Gableske S, Wang MK, Feister KF, Gack MU. *Science Signaling* 7 (307), ra3.2. The Ubiquitin-Specific Protease USP15 Promotes RIG-I-Mediated Antiviral Signaling by Deubiquitylating TRIM25. Pauli EK, Chan YK, Davis ME, Gableske S, Wang MK, Feister KF, Gack MU. *Sci Signal*. 2014 Jan 7;7(307):ra3. doi: 10.1126/scisignal.2004577.3. The Human COP9 Signalosome Protects Ubiquitin-conjugating Enzyme 3 (UBC3/Cdc34) from  $\beta$ -Transducin Repeat-containing Protein ( $\beta$ TrCP)-mediated Degradation. Fernandez-Sanchez ME, Sechet E, Margottin-Goguet F, Rogge L, Bianchi E. *J Biol Chem*. 2010 Jun 4;285(23):17390-7. Epub 2010 Apr 8.4. COP9 Signalosome Interacts ATP-dependently with p97/Valosin-containing Protein (VCP) and Controls the Ubiquitination Status of Proteins Bound to p97/VCP. Cayli S, Klug J, Chapiro J, Frohlich S, Krasteva G, Orel L, Meinhardt A. *J Biol Chem*. 2009 Dec 11;284(50):34944-53. Epub 2009 Oct 13.5. USP15 plays an essential role for caspase-3 activation during Paclitaxel-induced apoptosis. Xu M, Takanashi M, Oikawa K, Tanaka M, Nishi H, Isaka K, Kudo M, Kuroda M. *Biochem Biophys Res Commun*. 2009 Oct 16;388(2):366-71. Epub 2009 Aug 8.6. The Ubiquitin Specific Peptidase USP15 Regulates Human Papilloma Virus 16 E6 Protein Stability. Vos RM, Altreuter J, White EA, Howley PM. *J Virol*. 2009 Sep;83(17):8885-92. Epub 2009 Jun 24.7. The COP9/signalosome increases the efficiency of pVHL ubiquitin ligase-mediated hypoxia inducible factor- $\alpha$  ubiquitination. Miyauchi Y, Kato M, Tokunaga F, Iwai K. *J Biol Chem*. 2008 Jun 13;283(24):16622-16631. Epub 2008 Apr 18.8. CSN controls NF- $\kappa$ B by deubiquitylation of I $\kappa$ B $\alpha$ . Schweitzer K, Bozko PM, Dubiel W, Naumann M. *EMBO J*. 2007 Mar 21;26(6):1532-41. Epub 2007 Feb 22.