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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	Q9Y4E8
Other Accession	BC020688
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.

USP15 Antibody (monoclonal) (M01) - Protocols

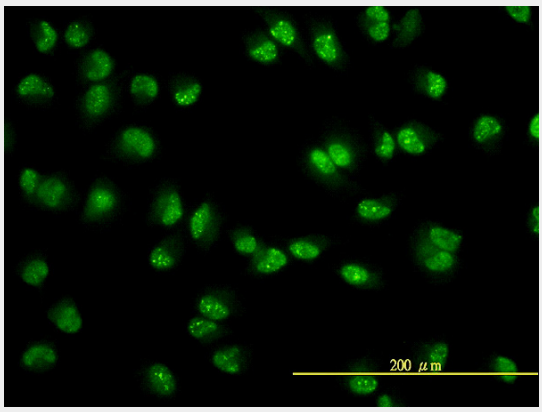
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

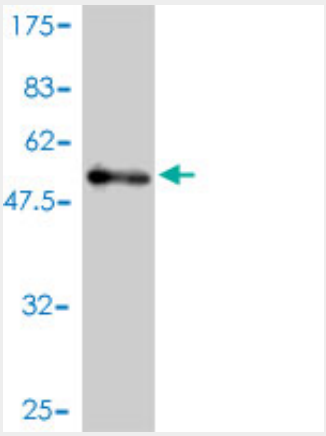
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- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

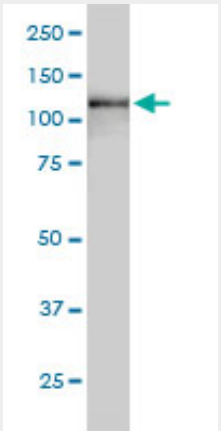
USP15 Antibody (monoclonal) (M01) - Images



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



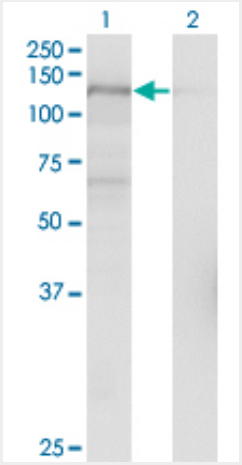
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (51.59 KDa) .



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

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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 MUSci 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-kappaB by deubiquitinylation of IkappaBalpha.Schweitzer K, Bozko PM, Dubiel W, Naumann M.EMBO J. 2007 Mar 21;26(6):1532-41. Epub 2007 Feb 22.