

Datasheet for ABIN388068
anti-MDM2 antibody (C-Term)



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Overview

Quantity:	200 µL
Target:	MDM2
Binding Specificity:	AA 393-424, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MDM2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This Mdm2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 393-424 amino acids from the C-terminal region of human Mdm2.
Clone:	RB00757
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	MDM2
Alternative Name:	Mdm2 (MDM2 Products)
Background:	MDM2 is a target of the transcription factor tumor protein p53. The encoded protein is a

Target Details

nuclear phosphoprotein that binds and inhibits transactivation by tumor protein p53, as part of an autoregulatory negative feedback loop. Overexpression of MDM2 can result in excessive inactivation of tumor protein p53, diminishing its tumor suppressor function. This protein has E3 ubiquitin ligase activity, which targets tumor protein p53 for proteasomal degradation. This protein also affects the cell cycle, apoptosis, and tumorigenesis through interactions with other proteins, including retinoblastoma 1 and ribosomal protein L5.

Molecular Weight: 55233

Gene ID: 4193

NCBI Accession: [NP_001138811](#), [NP_001265391](#), [NP_002383](#)

UniProt: [Q00987](#)

Pathways: [p53 Signaling](#), [PI3K-Akt Signaling](#), [Cell Division Cycle](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Autophagy](#), [Ubiquitin Proteasome Pathway](#)

Application Details

Application Notes: WB: 1:1000. IHC-P: 1:10~50

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid freeze-thaw cycles.

Storage: 4 °C, -20 °C

Storage Comment: Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots.

Expiry Date: 6 months

Product cited in:

Duan, Ma, Huang, DAmore, Zhang, Lei et al.: "The Clustered, Regularly Interspaced, Short Palindromic Repeats-associated Endonuclease 9 (CRISPR/Cas9)-created MDM2 T309G Mutation Enhances Vitreous-induced Expression of MDM2 and Proliferation and ..." in: **The Journal of biological chemistry**, Vol. 291, Issue 31, pp. 16339-47, (2017) ([PubMed](#)).

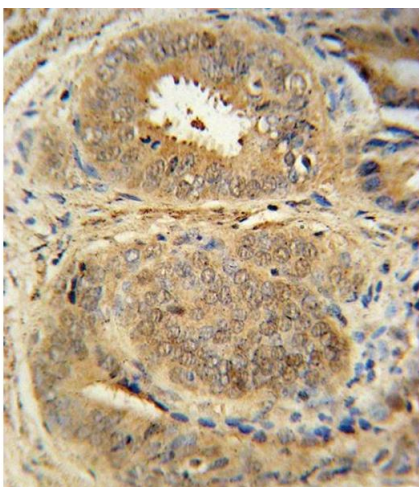
Zhou, Duan, Ma, Wu, Hu, Chen, Chee, Cui, Samad, Matsubara, Mukai, DAmore, Lei: "Introduction of the MDM2 T309G Mutation in Primary Human Retinal Epithelial Cells Enhances Experimental Proliferative Vitreoretinopathy." in: **Investigative ophthalmology & visual science**, Vol. 58, Issue 12, pp. 5361-5367, (2017) ([PubMed](#)).

Mokhtarzadeh, Parhiz, Hashemi, Abnous, Ramezani: "P53-Derived peptides conjugation to PEI: an approach to producing versatile and highly efficient targeted gene delivery carriers into cancer cells." in: **Expert opinion on drug delivery**, Vol. 13, Issue 4, pp. 477-91, (2016) ([PubMed](#)).

Guo, Yang, Yang, Linghu, Zhan, Brock, Herman, Zhang, Guo: "RASSF10 suppresses colorectal cancer growth by activating P53 signaling and sensitizes colorectal cancer cell to docetaxel." in: **Oncotarget**, Vol. 6, Issue 6, pp. 4202-13, (2015) ([PubMed](#)).

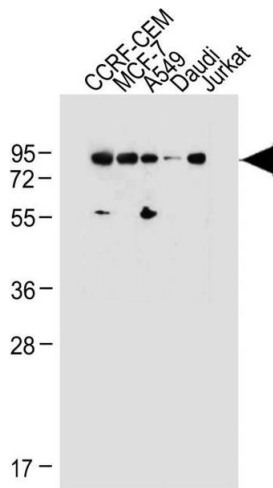
Stevenson, Sparks, Allende-Vega, Xirodimas, Lane, Saville: "The deubiquitinating enzyme USP2a regulates the p53 pathway by targeting Mdm2." in: **The EMBO journal**, Vol. 26, Issue 4, pp. 976-86, (2007) ([PubMed](#)).

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Mdm2 Antibody (C-term) (ABIN388068 and ABIN2845760) immunohistochemistry analysis in formalin fixed and paraffin embedded human prostate carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the Mdm2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Western Blotting

Image 2. All lanes : Anti-MDM2 Antibody (C-term) at 1:1000 dilution Lane 1: CCRF-CEM whole cell lysate Lane 2: MCF-7 whole cell lysate Lane 3: A549 whole cell lysate Lane 4: Daudi whole cell lysate Lane 5: Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 55 kDa Blocking/Dilution buffer: 5 % NFDN/TBST.