

## Anti-MDM2 Antibody Picoband®

Catalog Number: PA1378-1

### About MDM2

Mdm2 is an important negative regulator of the p53 tumor suppressor. It is the name of a gene as well as the protein encoded by that gene. Mdm2 protein functions both as an E3 ubiquity lipase that recognizes the N-terminal trans-activation domain (TAD) of the p53 tumor suppressor and an inhibitor of p53 transcriptional activation. Oliner et al. (1992) used MDM2 clones to localize the human gene to chromosome 12q13-q14 by analysis of human-hamster somatic cell hybrids.

### Overview

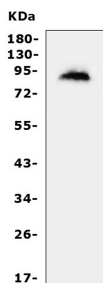
Product Name	Anti-MDM2 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-MDM2 Antibody catalog # PA1378-1. Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q00987

### Technical Details

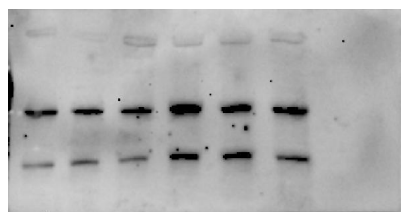
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human MDM2, different from the related mouse sequence by two amino acids, and from the related rat sequence by three amino acids.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins

Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human

## Anti-MDM2 Antibody Picoband® (PA1378-1) Images



Western blot analysis of MDM2 using anti-MDM2 antibody (PA1378-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: Human Caco-2 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MDM2 antigen affinity purified polyclonal antibody (Catalog # PA1378-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for MDM2 at approximately 90KD. The expected band size for MDM2 is at 55KD.



Western blot analysis of MDM2 using anti-MDM2 antibody (PA1378-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with non-fat dry milk (5%) in TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MDM2 antibody (PA1378-1) at 8µL in 6 mLs (not because it needed that concentration but because that was the size of my frozen aliquots) overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a Cell Signaling Technology's 7074s murine anti-rabbit conformation specific antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an SuperSignal West Pico Plus with a BioRad imager. A specific band was detected for MDM2 at approximately 55 kDa. The expected band size for MDM2 is at 55 kDa.

## 7 Publications Citing This Product

1. PubMed ID: -, Jiang X,Yuan J,Dou Y,Zeng D, Xiao S.Lipopolysaccharide Affects the Proliferation and Glucose Metabolism of Cervical Cancer Cells Through the FRA1/MDM2/p53 Pathway.Int J Med Sci 2021;18(4): 1030-1038.doi:10. 7150/ijms.47360.
2. PubMed ID: 26229107, The Oncoprotein HBXIP Modulates the Feedback Loop of MDM2/p53 to Enhance the Growth of Breast Cancer
3. PubMed ID: 26549498, Fra-1 is upregulated in lung cancer tissues and inhibits the apoptosis of lung cancer cells by the P53 signaling pathway

Visit [bosterbio.com/anti-mdm2-antibody-pa1378-1-boster.html](https://www.bosterbio.com/anti-mdm2-antibody-pa1378-1-boster.html) to see all 7 publications.

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### Anti-MDM2 Antibody

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