

Anti-MDMX Picoband Antibody
Catalog # ABO12558**Specification**

Anti-MDMX Picoband Antibody - Product Information

Application	WB, IHC-P
Primary Accession	O15151
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Protein Mdm4(MDM4) detection. Tested with WB, IHC-P in Human;Mouse.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-MDMX Picoband Antibody - Additional Information

Gene ID 4194

Other Names

Protein Mdm4, Double minute 4 protein, Mdm2-like p53-binding protein, Protein Mdmx, p53-binding protein Mdm4, MDM4, MDMX

Calculated MW

54864 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat

Western blot, 0.1-0.5 µg/ml, Human, Mouse

Subcellular Localization

Nucleus.

Tissue Specificity

Expressed in all tissues tested with high levels in thymus.

Protein Name

Protein Mdm4

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human MDMX (35-72aa KILHAAGAQGEMFTVKEVMHYLGQYIMVKQLYDQQEQH), different from the related mouse sequence by two amino acids, and from the related rat sequence by three amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-MDMX Picoband Antibody - Protein Information

Name MDM4

Synonyms MDMX

Function

Along with MDM2, contributes to TP53 regulation (PubMed:32300648). Inhibits p53/TP53- and TP73/p73-mediated cell cycle arrest and apoptosis by binding its transcriptional activation domain. Inhibits degradation of MDM2. Can reverse MDM2-targeted degradation of TP53 while maintaining suppression of TP53 transactivation and apoptotic functions.

Cellular Location

Nucleus.

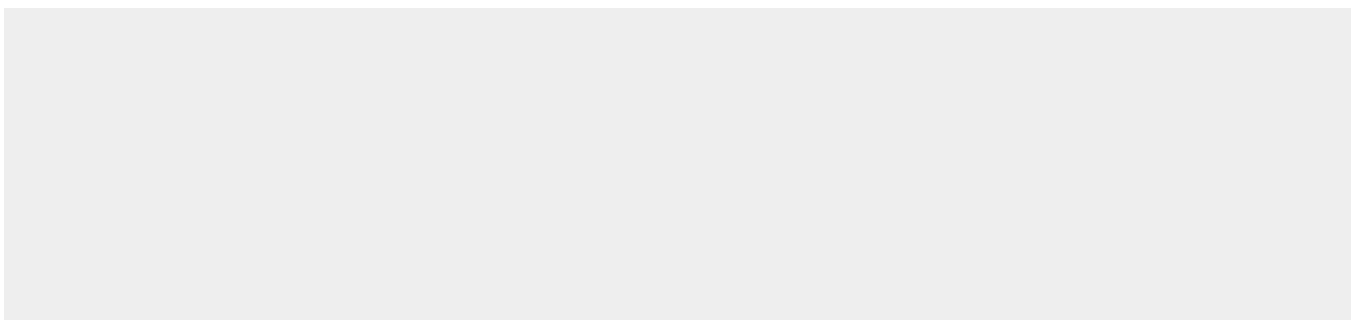
Tissue Location

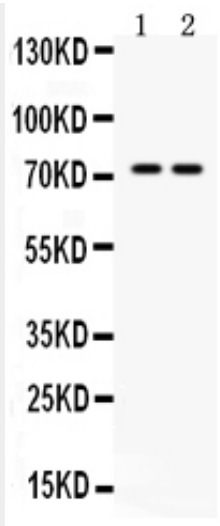
Expressed in all tissues tested with high levels in thymus

Anti-MDMX Picoband Antibody - Protocols

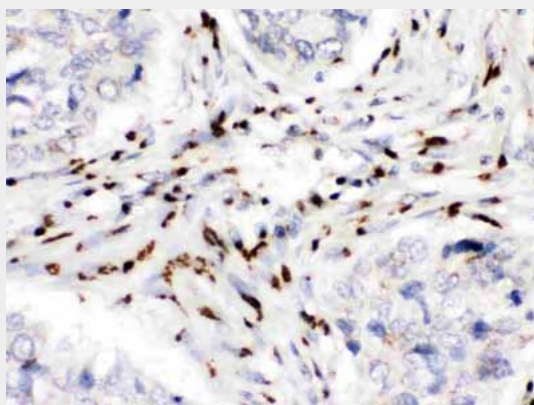
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-MDMX Picoband Antibody - Images



Western blot analysis of MDMX expression in mouse testis extract (lane 1) and 22RV1 whole cell lysates (lane 2). MDMX at 75KD was detected using rabbit anti- MDMX Antigen Affinity purified polyclonal antibody (Catalog # ABO12558) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method.



MDMX was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti- MDMX Antigen Affinity purified polyclonal antibody (Catalog # ABO12558) at 1 µg/mL. The immunohistochemical section was developed using SABC method.

Anti-MDMX Picoband Antibody - Background

Protein Mdm4 is a protein that in humans is encoded by the MDM4 gene. This gene encodes a nuclear protein that contains a p53 binding domain at the N-terminus and a RING finger domain at the C-terminus, and shows structural similarity to p53-binding protein MDM2. Both proteins bind the p53 tumor suppressor protein and inhibit its activity, and have been shown to be overexpressed in a variety of human cancers. However, unlike MDM2 which degrades p53, this protein inhibits p53 by binding its transcriptional activation domain. This protein also interacts with MDM2 protein via the RING finger domain, and inhibits the latter's degradation. So this protein can reverse MDM2-targeted degradation of p53, while maintaining suppression of p53 transactivation and apoptotic functions. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.