Datasheet for ABIN2787458

# anti-MED7 antibody (Middle Region)

3 Images

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## Overview

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|---|---|
| Quantity: | 100 µL |
| Target: | MED7 |
| Binding Specificity: | Middle Region |
| Reactivity: | Human, Mouse, Dog, Rabbit, Cow, Guinea Pig, Horse, Rat, Zebrafish (Danio rerio) |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This MED7 antibody is un-conjugated |
| Application: | Western Blotting (WB), Chromatin Immunoprecipitation (ChIP) |

## Product Details

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|---|---|
| Immunogen: | The immunogen is a synthetic peptide directed towards the middle region of human MED7 |
| Sequence: | KRQRLETAER FQKHLERVIE MIQNCLASLP DDLPHSEAGM RVKTEPMDAD |
| Predicted Reactivity: | Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 100% |
| Characteristics: | This is a rabbit polyclonal antibody against MED7. It was validated on Western Blot. |
| Purification: | Affinity Purified |

## Target Details

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|---|---|
| Target: | MED7 |
| Alternative Name: | MED7 (MED7 Products) |

## Target Details

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|---|---|
| Background: | The activation of gene transcription is a multistep process that is triggered by factors that recognize transcriptional enhancer sites in DNA. These factors work with co-activators to direct transcriptional initiation by the RNA polymerase II apparatus. The protein encoded by this gene is a subunit of the CRSP (cofactor required for SP1 activation) complex, which, along with TFIID, is required for efficient activation by SP1. This protein is also a component of other multisubunit complexes e.g. thyroid hormone receptor-(TR-) associated proteins which interact with TR and facilitate TR function on DNA templates in conjunction with initiation factors and cofactors. Two transcript variants encoding the same protein have been found for this gene.<br>Alias Symbols: CRSP33, CRSP9, MGC12284, ARC34<br>Protein Interaction Partner: HAUS1, CDK8, CDK19, MED13, MED19, MED26, EPAS1, MED6, UBE2I, UL48, SUMO2, UBC, CTDP1, MED10, MED25, MED15, MED14, VDR, SREBF1, RELA, PARP1, ZSCAN1, TRIM15, RHOXF2, PCBD2, MED31, TRIM29, RBFOX2, IKBKG, LZTR1, PML, MED9, MED8, HGS, MED1, HNF4A, ESR2, ESR1,<br>Protein Size: 233 |
| Molecular Weight: | 27 kDa |
| Gene ID: | 9443 |
| NCBI Accession: | NM_004270, NP_004261 |
| UniProt: | O43513 |
| Pathways: | Stem Cell Maintenance, Regulation of Lipid Metabolism by PPARalpha |

## Application Details

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| Application Notes: | Optimal working dilutions should be determined experimentally by the investigator. |
| Comment: | Antigen size: 233 AA |
| Restrictions: | For Research Use only |

## Handling

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|---|---|
| Format: | Liquid |
| Concentration: | Lot specific |
| Buffer: | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose. |
| Preservative: | Sodium azide |

## Handling

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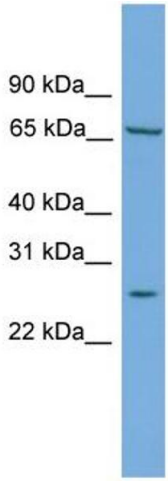
|---|---|
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -20 °C |
| Storage Comment: | For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles. |

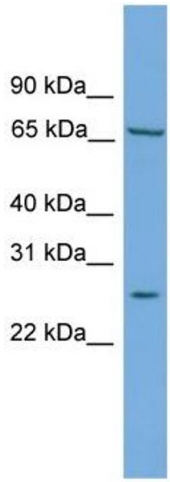
## Validation report #103662 for Western Blotting (WB)




**Western Blotting**

**Image 1. WB Suggested Anti-MED7 Antibody Titration:** 0.2-1 ug/ml

**Positive Control:** Jurkat cell lysate



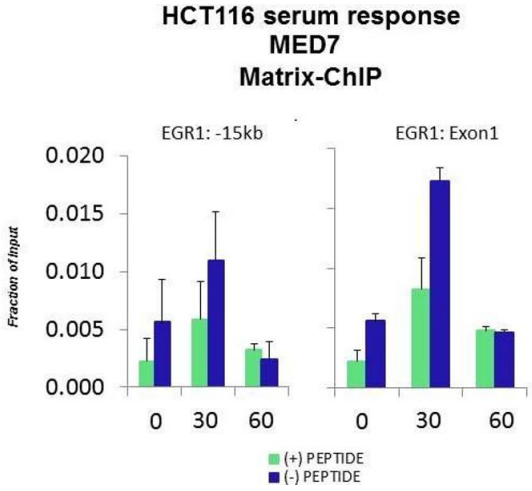

**Western Blotting**

**Image 2.** WB Suggested Anti-MED7

Antibody Titration: 0.2-1 µg/mL

Positive Control: Jurkat cell lysate

MED7 is supported by BioGPS gene expression data to be expressed in Jurkat




## Chromatin Immunoprecipitation

**Image 3.** Quiescent human colon carcinoma HCT116 cultures were treated with 10 % FBS for three time points (0, 15, 30min) or (0, 30, 60min) were used in Matrix-ChIP and real-time PCR assays at EGR1 gene (Exon1) and 15kb upstream site.