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# MED14 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12202c

## Product Information

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|---|---|
| **Application** | WB, FC, E |
| **Primary Accession** | O60244 |
| **Other Accession** | NP_004220 |
| **Reactivity** | Human, Mouse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB20179 |
| **Calculated MW** | 160607 |
| **Antigen Region** | 586-615 |

## Additional Information

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| **Gene ID** | 9282 |
| **Other Names** | Mediator of RNA polymerase II transcription subunit 14, Activator-recruited cofactor 150 kDa component, ARC150, Cofactor required for Sp1 transcriptional activation subunit 2, CRSP complex subunit 2, Mediator complex subunit 14, RGR1 homolog, hRGR1, Thyroid hormone receptor-associated protein complex 170 kDa component, Trap170, Transcriptional coactivator CRSP150, Vitamin D3 receptor-interacting protein complex 150 kDa component, DRIP150, MED14 |
| **Target/Specificity** | This MED14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 586-615 amino acids from the Central region of human MED14. |
| **Dilution** | WB~~1:4000 FC~~1:25 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | MED14 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | MED14 |
| **Synonyms** | ARC150, CRSP2, CXorf4, DRIP150, EXLM1, R |
| **Function** | Component of the Mediator complex, a coactivator involved in the regulated transcription of nearly all RNA polymerase II-dependent genes. Mediator functions as a bridge to convey information from gene- specific regulatory proteins to the basal RNA polymerase II transcription machinery. Mediator is recruited to promoters by direct interactions with regulatory proteins and serves as a scaffold for the assembly of a functional preinitiation complex with RNA polymerase II and the general transcription factors. |
| **Cellular Location** | Nucleus. |
| **Tissue Location** | Ubiquitous. |

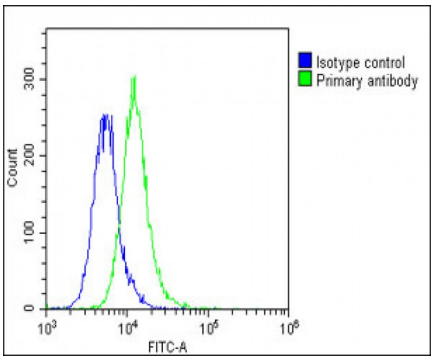
## Background

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. This protein contains a bipartite nuclear localization signal. This gene is known to escape chromosome X-inactivation.

## References

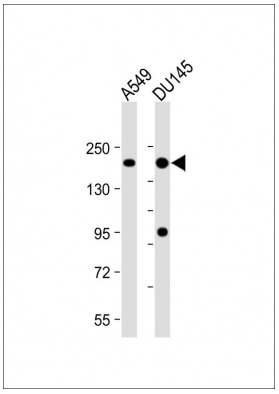

Wu, C., et al. Proteomics 7(11):1775-1785(2007)
Lee, J., et al. Arch. Biochem. Biophys. 461(2):200-210(2007)
Olsen, J.V., et al. Cell 127(3):635-648(2006)
Olsen, J.V., et al. Cell 127(3):635-648(2006)
Chen, W., et al. Mol. Endocrinol. 20(3):560-572(2006)


## Images




Overlay histogram showing A549 cells stained with AP12202C(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP12202C, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(1583138) at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

All lanes : Anti-MED14 Antibody (Center) at 1:2000 dilution Lane 1: A549 whole cell lysate Lane 2: DU145 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 : 160




kDa Blocking/Dilution buffer: 5% NFDM/TBST.