

**CITED2 Antibody (NT)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10889****Specification**

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**CITED2 Antibody (NT) - Product Information**

Application	WB
Primary Accession	<a href="#">Q99967</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG1
Calculated MW	28497

**CITED2 Antibody (NT) - Additional Information****Gene ID** 10370

Positive Control  
Application & Usage

**Western Blot: Jurkat cell lysate**  
**Western Blot: 1 - 2 µg/ml, ELISA. However,**  
**the optimal conditions should be**  
**determined individually.**

**Other Names**

Cbp/p300-interacting transactivator 2, melanocyte-specific gene 1-related gene 1, MSG-related protein 1, MRG1, melanocyte specific gene 2, MSG2, ER154-like, ASD8, VSD2

**Target/Specificity**

CITED2

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (1 mg/ml) in 1X PBS containing 0.02 % sodium azide.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

CITED2 Antibody (NT) is for research use only and not for use in diagnostic or therapeutic procedures.

## **CITED2 Antibody (NT) - Protein Information**

**Name** CITED2

**Synonyms** MRG1

### **Function**

Transcriptional coactivator of the p300/CBP-mediated transcription complex. Acts as a bridge, linking TFAP2 transcription factors and the p300/CBP transcriptional coactivator complex in order to stimulate TFAP2-mediated transcriptional activation. Positively regulates TGF-beta signaling through its association with the SMAD/p300/CBP-mediated transcriptional coactivator complex. Stimulates the peroxisome proliferator-activated receptors PPARA transcriptional activity. Enhances estrogen-dependent transactivation mediated by estrogen receptors. Acts also as a transcriptional corepressor; interferes with the binding of the transcription factors HIF1A or STAT2 and the p300/CBP transcriptional coactivator complex. Participates in sex determination and early gonad development by stimulating transcription activation of SRY. Plays a role in controlling left-right patterning during embryogenesis; potentiates transcriptional activation of NODAL-mediated gene transcription in the left lateral plate mesoderm (LPM). Plays an essential role in differentiation of the adrenal cortex from the adrenogonadal primordium (AGP); stimulates WT1-mediated transcription activation thereby up-regulating the nuclear hormone receptor NR5A1 promoter activity. Associates with chromatin to the PITX2 P1 promoter region.

### **Cellular Location**

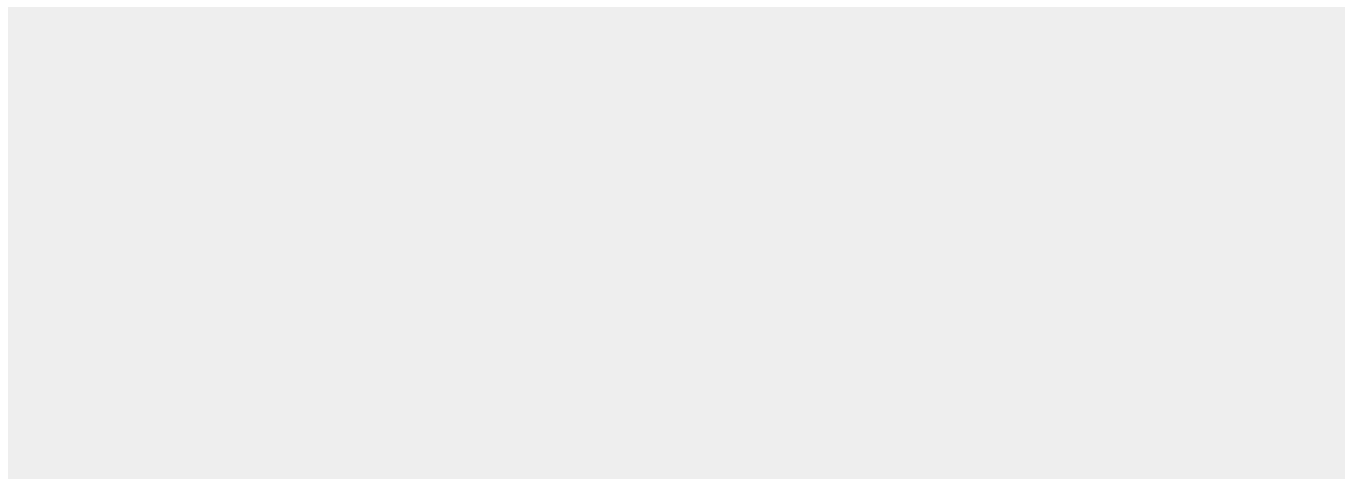
Nucleus Note=Colocalizes with EP300 in dot-like structures

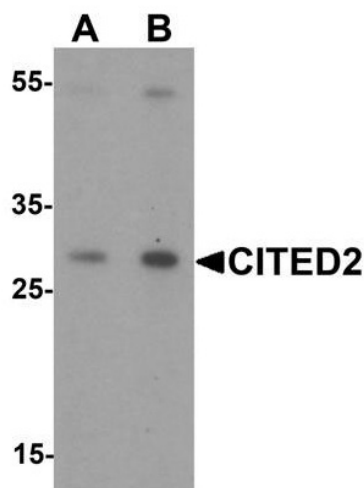
## **CITED2 Antibody (NT) - Protocols**

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](#)

## **CITED2 Antibody (NT) - Images**





Western blot analysis of CITED2 in Jurkat cell lysate with CITED2 antibody at (A) 1 and (B) 2  $\mu\text{g/mL}$ .

#### **CITED2 Antibody (NT) - Background**

CITED2 was initially identified as a potential transcriptional activator with significant homology to MSG1, a melanocyte-specific nuclear protein. CITED2 interacts with the histone acetyltransferase p300/CBP and acts as a coactivator to several DNA-binding transcription factors such as HIF-1 and AP-2. CITED2 also controls proliferation of mouse embryonic fibroblasts via the polycomb group genes Bmi-1 and Mel18 and the tumor suppressor Ink4a/Arf. CITED2 has also been found to be an essential regulator of adult hematopoietic stem cells (HSCs), with conditional deletion of CITED2 in the adult mouse resulting in the loss of HSCs, multilineage bone marrow failure and increased lethality.