

For Research Use Only

# MORC3 Polyclonal antibody

Catalog Number: 24994-1-AP **3 Publications**



## Basic Information

**Catalog Number:**

24994-1-AP

**Size:**

150ul, Concentration: 750 ug/ml by Nanodrop and 433 ug/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG21825

**GenBank Accession Number:**

BC132731

**GeneID (NCBI):**

23515

**UNIPROT ID:**

Q14149

**Full Name:**

MORC family CW-type zinc finger 3

**Calculated MW:**

939 aa, 107 kDa

**Observed MW:**

130 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IF/ICC 1:400-1:1600

## Applications

**Tested Applications:**

WB, IF/ICC, IP, ELISA

**Cited Applications:**

WB, IF

**Species Specificity:**

human

**Cited Species:**

human, mouse

**Positive Controls:**

WB : HeLa cells,

IP : HeLa cells,

IF/ICC : A431 cells,

## Background Information

MORC3, also named as MORC family CW-type zinc finger protein 3 or NXP2, is a 939 amino acid protein, which contains 1 CW-type zinc finger. MORC3 localizes in the nucleus and are expressed in heart, placenta, skeletal muscle, brain, pancreas, lung, liver, but not kidney. MORC3 as Nuclear factor which forms MORC3-NBs (nuclear bodies) via an ATP-dependent mechanism. Sumoylated MORC3-NBs can also associate with PML-NBs and recruits TP53 and SP100 to PML-NBs, thus regulating TP53 activity. It may be required for influenza A transcription during viral infection. The calculated molecular weight of MORC3 is a 107 kDa, but the Sumoylated MORC3 protein is about 130 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Moritz M Gaidt	34759314	Nature	WB
Dong Li	35879101	J Med Virol	WB,IF
Ziqi Wang	38591005	iScience	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

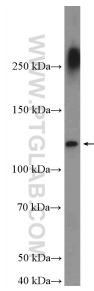
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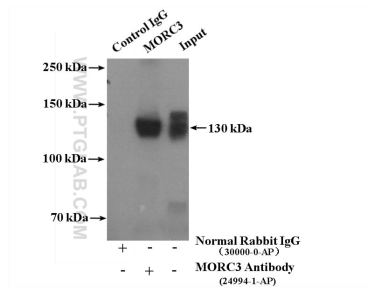
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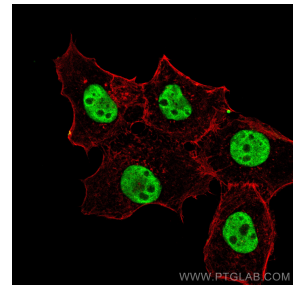
## Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 24994-1-AP (MORC3 Antibody) at dilution of 1:1000 incubated at 4 degree celsius over night.



IP result of anti-MORC3 (IP:24994-1-AP, 4ug; Detection:24994-1-AP 1:300) with HeLa cells lysate 4000ug.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using MORC3 antibody (24994-1-AP) at dilution of 1:800 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), (CL594-Phalloidin, red).