

For Research Use Only

# MOF Polyclonal antibody

Catalog Number: 13842-1-AP

Featured Product

8 Publications



## Basic Information

### Catalog Number:

13842-1-AP

### Size:

150ul, Concentration: 240 ug/ml by Nanodrop and 187 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG4802

### GenBank Accession Number:

BC037773

### GeneID (NCBI):

84148

### UNIPROT ID:

Q9H7Z6

### Full Name:

MYST histone acetyltransferase 1

### Calculated MW:

467 aa, 53 kDa

### Observed MW:

52 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

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

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IF/ICC, IP, ELISA

### Cited Applications:

WB, IP, ChIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

WB : HeLa cells, MCF-7 cells, rat liver tissue

IP : HeLa cells,

IF/ICC : HCT 116 cells,

## Background Information

MOF, also known as MYST1, KAT8, is a member of the MYST acetyltransferase family, which is homologous to Drosophila males absent on the first (MOF) protein. Deletion of MYST1 in cells leads to genomic instability, spontaneous chromosomal aberration, cell cycle defects, reduced transcription of certain genes and defective DNA damage repair (PMID: 32711345). MYST1 dually localizes to the nucleus and mitochondria of human cancer cells (PMID: 37813994). Western blot analysis detected MOF at an apparent molecular mass of 52 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Guokai Yan	35266843	Autophagy	WB,IP
Yang Yang	29975939	Cell Physiol Biochem	WB
Ding Wang	24037710	Mol Cell Proteomics	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

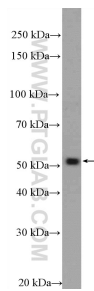
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

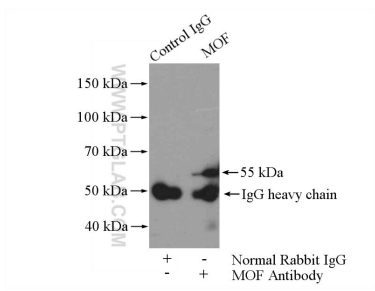
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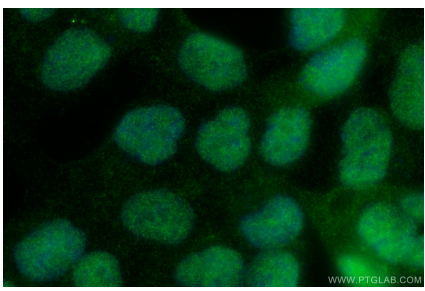
## Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 13842-1-AP (MOF Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP result of anti-MOF (IP:13842-1-AP, 4ug; Detection:13842-1-AP 1:600) with HeLa cells lysate 1200ug.



Immunofluorescent analysis of (4% PFA) fixed HCT 116 cells using MOF antibody (13842-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).