

For Research Use Only

# METAP2 Polyclonal antibody

Catalog Number: 17040-1-AP

1 Publications



## Basic Information

### Catalog Number:

17040-1-AP

### Size:

150ul, Concentration: 700 ug/ml by Nanodrop and 320 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG10564

### GenBank Accession Number:

BC013782

### GeneID (NCBI):

10988

### UNIPROT ID:

P50579

### Full Name:

methionyl aminopeptidase 2

### Calculated MW:

478 aa, 53 kDa

### Observed MW:

67 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 1:50-1:500

## Applications

### Tested Applications:

WB, IF/ICC, IP, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

mouse

### Positive Controls:

WB : HepG2 cells, MCF-7 cells, mouse pancreas tissue, mouse testis tissue

IP : MCF-7 cells,

IF/ICC : HepG2 cells,

## Background Information

MetAP2, also known as MAP2, P67EIF2 or p67, is one of the three known methionine aminopeptidases responsible for the removal of the N-terminal translation initiator methionine from newly synthesized proteins, which is a critical step in protein maturation (PMID: 27692546, 16568094). The enzyme binds two cobalt or manganese ions in its active site (PMID: 11524009, 12718546). As higher MetAP2 expression was observed in tumor (mesothelioma, neuroblastoma, and colorectal carcinoma) cells compared with normal cells, the enzyme serves as a target for anti-angiogenic compounds of natural origin, such as fumagillin and ovalicin (PMID: 11485930, 15927358, 15102683, 9224570). Selective inhibition of MetAP2 stops vascularization and tumor growth in animal models (PMID: 12118091). MetAP2 has 3 isoforms with molecular mass of 50-53 kDa and apparent molecular mass 67 kD.

## Notable Publications

Author	Pubmed ID	Journal	Application
Kotaro Fujii	30576652	Mol Cell	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

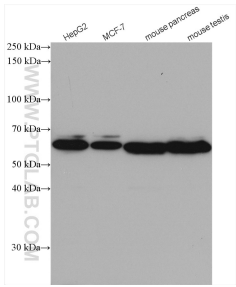
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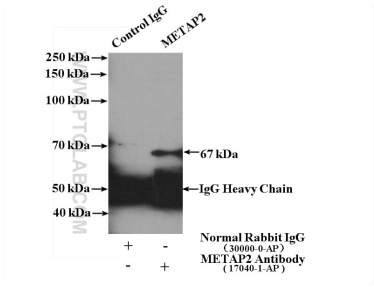
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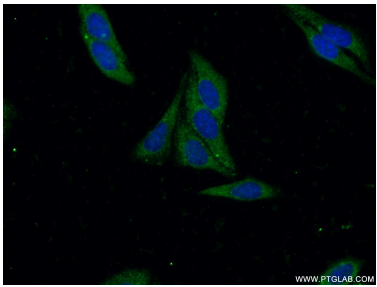
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 17040-1-AP (METAP2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP result of anti-METAP2 (IP:17040-1-AP, 4ug; Detection:17040-1-AP 1:300) with MCF-7 cells lysate 3200ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 17040-1-AP (METAP2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).