

For Research Use Only

# METTL6 Polyclonal antibody

Catalog Number: 16527-1-AP

Featured Product

3 Publications



## Basic Information

**Catalog Number:**

16527-1-AP

**Size:**

150ul, Concentration: 800 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG9768

**GenBank Accession Number:**

BC022400

**GeneID (NCBI):**

131965

**UNIPROT ID:**

Q8TCB7

**Full Name:**

methyltransferase like 6

**Calculated MW:**

255 aa, 30 kDa

**Observed MW:**

30-32 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:2000-1:10000

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

IHC 1:50-1:500

## Applications

**Tested Applications:**

WB, IHC, IP, ELISA

**Cited Applications:**

WB, IHC

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB : HeLa cells, HepG2 cells, MCF-7 cells

IP : MCF-7 cells,

IHC : human lung cancer tissue, human breast cancer tissue, human placenta tissue, human skin tissue, human brain tissue, human ovary tissue

## Background Information

Methyltransferase-like protein 6 (METTL6) belongs to the METL family. METTL6 is as a crucial regulator of tumor cell growth, and METTL6 is a bona fide transfer RNA (tRNA) methyltransferase, catalyzing the formation of 3-methylcytidine at C32 of specific serine tRNA isoacceptors (PMID:32923617). METTL6 is a member of the RNA methyltransferase family that has been identified in many cancers. The mRNA expression levels of METTL6 were significantly upregulated in HCC tumor tissues compared to that in adjacent nontumor tissues. CRISPR/Cas9mediated knockout of METTL6 in hepatocellular carcinoma cell lines remarkably inhibited colony formation, cell proliferation, cell migration, cell invasion and cell attachment ability (PMID:34913069).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yangying Zhou	36341373	Front Immunol	IHC
Luang Xu	28655767	J Biol Chem	WB
Jia Cui	38982125	Nat Commun	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

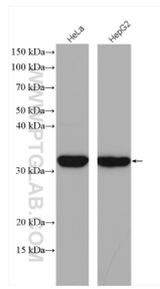
For technical support and original validation data for this product please contact:

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

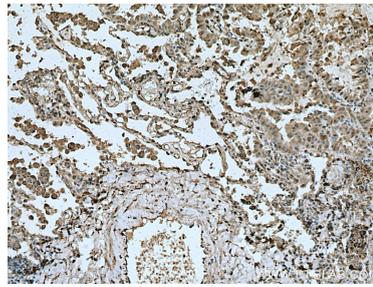
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

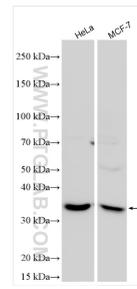
## Selected Validation Data



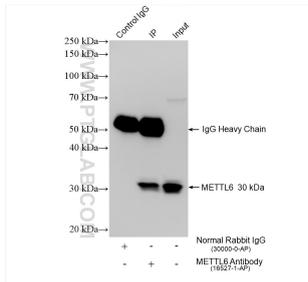
Various lysates were subjected to SDS PAGE followed by western blot with 16527-1-AP (METTL6 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 16527-1-AP (METTL6 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 16527-1-AP (METTL6 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



IP result of anti-METTL6 (IP:16527-1-AP, 4ug; Detection:16527-1-AP 1:5000) with MCF-7 cells lysate 1600 ug.