

For Research Use Only

# FTO Polyclonal antibody

Catalog Number: 27226-1-AP

Featured Product

180 Publications



## Basic Information

Catalog Number:

27226-1-AP

Concentration:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG26095

GenBank Accession Number:

NM\_001080432

GeneID (NCBI):

79068

UNIPROT ID:

Q9COB1

Full Name:

fat mass and obesity associated

Calculated MW:

58 kDa

Observed MW:

58 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:3000

IHC 1:200-1:800

IF-P 1:50-1:500

## Applications

Tested Applications:

WB, IHC, IF-P, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP, RIP

Species Specificity:

human

Cited Species:

human, mouse, rat, pig, chicken, goat

**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** : A549 cells, MDA-MB-231 cells, Caco-2 cells, HEK-293 cells, HeLa cells, HEK-293T cells, SH-SY5Y cells

**IHC** : human liver cancer tissue, human breast cancer tissue, human colon tissue, human stomach cancer tissue

**IF-P** : human lymphoma tissue, human liver cancer tissue

## Background Information

Fat mass and obesity-associated protein (FTO) has efficient oxidative demethylation activity targeting the abundant N6-methyladenosine (m6A) residues in RNA in vitro. Variants in the FTO (fat mass and obesity associated) gene are associated with increased body mass index in humans.

## Notable Publications

| Author            | Pubmed ID | Journal          | Application |
|-------------------|-----------|------------------|-------------|
| Kusuma Suphakhong | 36183833  | J Biol Chem      | WB          |
| Praveen K Dubey   | 34581943  | Mol Cell Biochem | WB          |
| Mingming Sun      | 36232604  | Int J Mol Sci    | WB          |

## Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

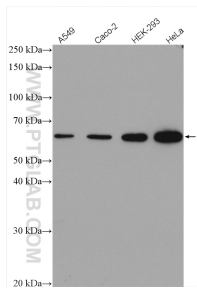
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

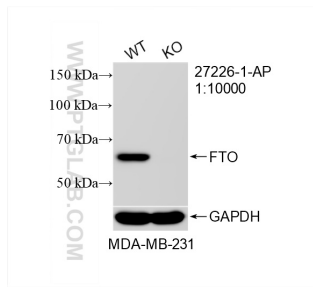
W: [ptgcn.com](http://ptgcn.com)

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

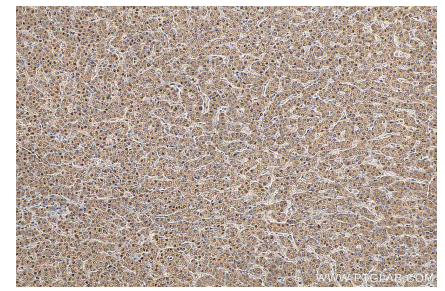
## Selected Validation Data



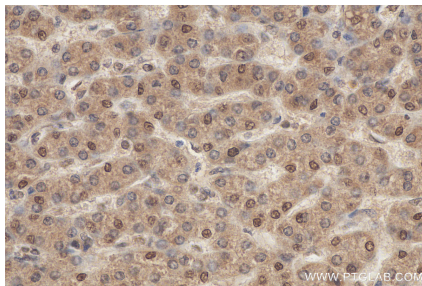
Various lysates were subjected to SDS PAGE followed by western blot with 27226-1-AP (FTO antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



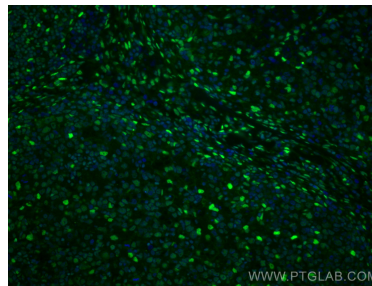
WB result of FTO antibody (27226-1-AP; 1:10000; room temperature for 1.5 hours) with wild-type and FTO knockout MDA-MB-231 cells.



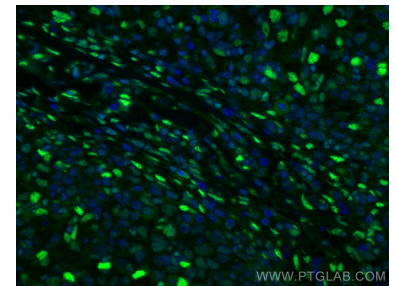
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 27226-1-AP (FTO antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



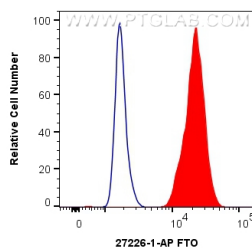
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 27226-1-AP (FTO antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human lymphoma tissue using FTO antibody (27226-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human lymphoma tissue using FTO antibody (27226-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10<sup>6</sup> SH-SY5Y cells were intracellularly stained with 0.4 ug Anti-Human FTO (27226-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).