

For Research Use Only

# FTO Monoclonal antibody

Catalog Number: 68111-1-Ig **4 Publications**



## Basic Information

|  |  |   |
|--|--|---|
| <b>Catalog Number:</b><br>68111-1-Ig                           | <b>GenBank Accession Number:</b><br>NM_001080432     | <b>Purification Method:</b><br>Protein A purification                   |
| <b>Size:</b><br>150ul , Concentration: 1000 ug/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>79068                       | <b>CloneNo.:</b><br>1E8B1   |
| <b>Source:</b><br>Mouse  | <b>UNIPROT ID:</b><br>Q9C0B1                         | <b>Recommended Dilutions:</b><br>WB 1:5000-1:10000<br>IHC 1:1000-1:4000 |
| <b>Isotype:</b><br>IgG2b                                       | <b>Full Name:</b><br>fat mass and obesity associated |   |
| <b>Immunogen Catalog Number:</b><br>AG26095                    | <b>Calculated MW:</b><br>58 kDa                      |   |
|  | <b>Observed MW:</b><br>58 kDa                        |   |

## Applications

|  |   |
|--|---|
| <b>Tested Applications:</b><br>WB, IHC, FC (Intra), ELISA  | <b>Positive Controls:</b><br><br><b>WB :</b> LNCaP cells, NIH/3T3 cells, HeLa cells, Jurkat cells, K-562 cells, HUVEC cells, mouse brain tissue<br><b>IHC :</b> mouse brain tissue, human liver cancer tissue |
| <b>Cited Applications:</b><br>WB, IHC, RIP   |   |
| <b>Species Specificity:</b><br>human, mouse, pig   |   |
| <b>Cited Species:</b><br>human, mouse, pig   |   |
| <b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b> |   |

## 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 |
|-----------|-----------|--------------------|-------------|
| Yang Wang | 36333630  | Apoptosis          | WB          |
| Yuwei Gu  | 39399378  | Noncoding RNA Res  | WB,RIP,IHC  |
| Cong Chen | 38682314  | Acta Physiol (Oxf) | WB          |

## Storage

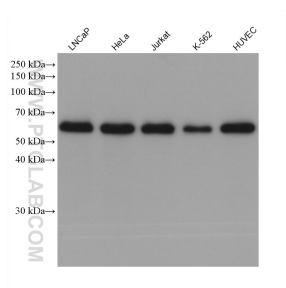
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

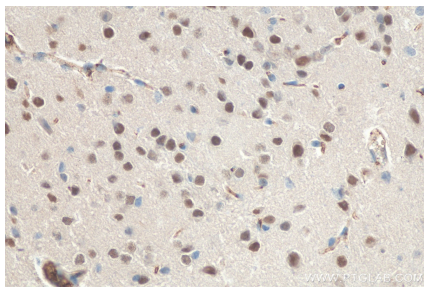
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

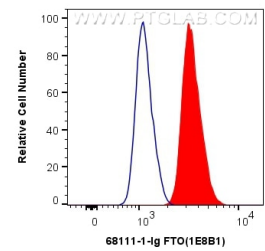
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68111-1-Ig (FTO antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 68111-1-Ig (FTO antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10<sup>6</sup> SH-SY5Y cells were intracellularly stained with 0.4 ug Anti-Human FTO (68111-1-Ig, Clone:1E8B1) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2b Isotype Control (MPC-11) (65128-1-Ig, Clone: MPC-11) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).