

For Research Use Only

FTO Monoclonal antibody

Catalog Number: 68111-1-Ig

Featured Product

4 Publications



Basic Information

Catalog Number:

68111-1-Ig

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG26095

GenBank Accession Number:

NM_001080432

GeneID (NCBI):

79068

UNIPROT ID:

Q9C0B1

Full Name:

fat mass and obesity associated

Calculated MW:

58 kDa

Observed MW:

58 kDa

Purification Method:

Protein A purification

CloneNo.:

1E8B1

Recommended Dilutions:

WB 1:5000-1:10000

IHC 1:1000-1:4000

Applications

Tested Applications:

WB, IHC, FC (Intra), ELISA

Cited Applications:

WB, IHC, RIP

Species Specificity:

human, mouse, pig

Cited Species:

human, mouse, pig

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 : LNCaP cells, MDA-MB-231 cells, NIH/3T3 cells, HeLa cells, Jurkat cells, K-562 cells, HUVEC cells, mouse brain tissue

IHC : mouse brain tissue, human liver cancer tissue

FC (Intra) : SH-SY5Y cells,

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

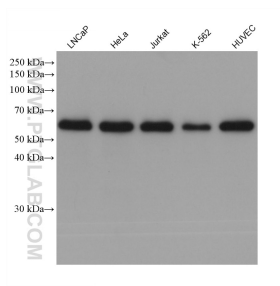
For technical support and original validation data for this product please contact:

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

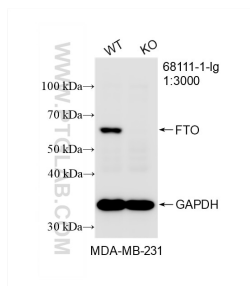
E: proteintech@ptglab.com
W: ptglab.com

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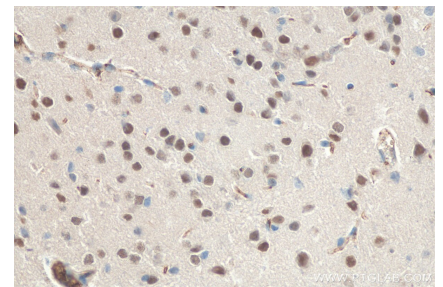
Selected Validation Data



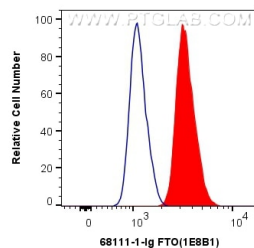
Various lysates were subjected to SDS PAGE followed by western blot with 68111-1-Ig (FTO antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



WB result of FTO antibody (68111-1-Ig; 1:3000; room temperature for 1.5 hours) with wild-type and FTO knockout MDA-MB-231 cells.



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).



1X10⁶ 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).