

For Research Use Only

FTO Monoclonal antibody

Catalog Number: 68111-1-Ig **2 Publications**



Basic Information

Catalog Number: 68111-1-Ig	GenBank Accession Number: NM_001080432	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 79068	CloneNo.: 1E8B1
Source: Mouse	UNIPROT ID: Q9C0B1	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000
Isotype: IgG2b	Full Name: fat mass and obesity associated	
Immunogen Catalog Number: AG26095	Calculated MW: 58 kDa	
	Observed MW: 58 kDa	

Applications

Tested Applications: FC, IHC, WB, ELISA	Positive Controls: WB : LNCaP cells, NIH/3T3 cells, pig brain tissue, HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells IHC : mouse brain tissue, human liver cancer tissue
Cited Applications: WB	
Species Specificity: Human, Mouse, Pig	
Cited Species: human, pig	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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
Jian Jin	38346619	Int J Biol Macromol	WB

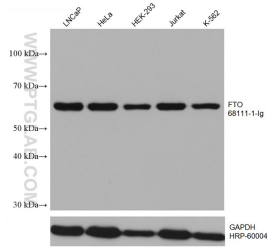
Storage

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

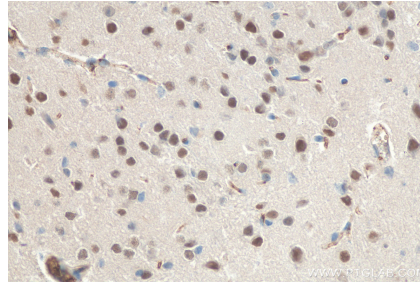
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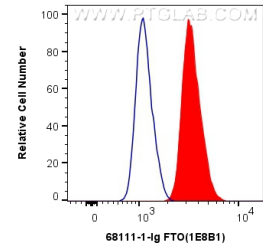
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68111-1-Ig (FTO antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



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).