

bsm-60733R**[Primary Antibody]****BioSS**
ANTIBODIES

www.bioss.com.cn

sales@bioss.com.cn

techsupport@bioss.com.cn

400-901-9800

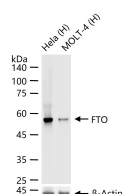
FTO Recombinant Rabbit mAb**— DATASHEET —**

Host: Rabbit
Clonality: Recombinant
GeneID: 79068
Target: FTO
Immunogen: A synthesized peptide derived from human FTO: 45687/505.
Purification: affinity purified by Protein A
Concentration: 1mg/ml

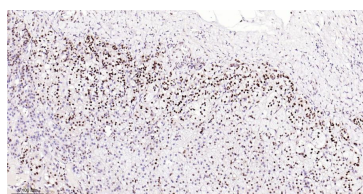
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
 Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Dioxygenase that repairs alkylated DNA and RNA by oxidative demethylation. Has highest activity towards single-stranded RNA containing 3-methyluracil, followed by single-stranded DNA containing 3-methylthymine. Has low demethylase activity towards single-stranded DNA containing 1-methyladenine or 3-methylcytosine. Has no activity towards 1-methylguanine. Has no detectable activity towards double-stranded DNA. Requires molecular oxygen, alpha-ketoglutarate and iron. Contributes to the regulation of the global metabolic rate, energy expenditure and energy homeostasis. Contributes to the regulation of body size and body fat accumulation.

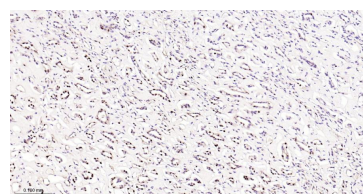
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human**Predicted MW.:** 58 kDa**Observed MW.:** 58 kDa**Subcellular Location:** Nucleus**— VALIDATION IMAGES —**

25 ug total protein per lane of various lysates (see on figure) probed with FTO monoclonal antibody, unconjugated (bsm-60733R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Adrenal Gland; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with FTO Monoclonal Antibody, Unconjugated (bsm-60733R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with FTO Monoclonal Antibody, Unconjugated (bsm-60733R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

— SELECTED CITATIONS —

- **[IF=4.2]** Han Rong. et al. Curcumol ameliorates diabetic retinopathy via modulating fat mass and obesity-associated protein-demethylated MAF transcription factor G antisense RNA 1. WORLD J DIABETES. 2025 Apr;16(4):97201 WB ;Human. 40236860
- **[IF=3.2]** Yuxin Liu. et al. N6-Methyladenosine Modification-Related Genes Express Differentially in Sterile Male Cattle-Yaks. LIFE-BASEL. 2024 Sep;14(9):1155 IHC,WB,IF ;Bovine. 39337938
- **[IF=3.2]** Yuxin Liu. et al.N⁶-Methyladenosine Modification-Related Genes Express Differentially in Sterile Male Cattle-Yaks.life. IF ;Yak, Bos taurus. 39337938

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.