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## FTO Rabbit pAb

Catalog Number: bs-7056R

Target Protein: FTO

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000)

Reactivity: Human, Mouse, Rat

Predicted MW: 58 kDa

Detected MW: 58 kDa

Entrez Gene: 79068

Swiss Prot: Q9C0B1

Source: KLH conjugated synthetic peptide derived from human Protein fatso: 165-265/505.

Purification: affinity purified by Protein A

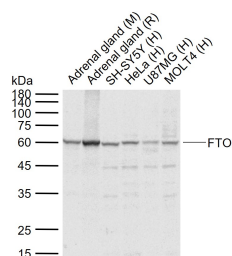
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

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.

### VALIDATION IMAGES

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Sample: Lane 1: Mouse Adrenal gland tissue lysates Lane 2: Rat Adrenal gland tissue lysates Lane 3: Human SH-SY5Y cell lysates Lane 4: Human HeLa cell lysates Lane 5: Human U87MG cell lysates Lane 6: Human MOLT4 cell lysates Primary: Anti-FTO (bs-7056R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 58 kDa Observed band size: 60 kDa

## PRODUCT SPECIFIC PUBLICATIONS

[IF=11.161] Cui Yuanbo. et al. RNA m6A demethylase FTO-mediated epigenetic up-regulation of LINC00022 promotes tumorigenesis in esophageal squamous cell carcinoma. J Exp Clin Canc Res. 2021 Dec;40(1):1-20 WB ; human . 34544449

[IF=5.714] Xuhua Sun. et al. Identification of clinical heterogeneity and construction of a novel subtype predictive model in patients with ankylosing spondylitis: An unsupervised machine learning study. INT IMMUNOPHARMACOL. 2023 Apr;117:109879 IHC ; Human . 36822084

[IF=6.291] Leqiang Gao. et al. Fat mass and obesity-associated gene (FTO) hypermethylation induced by decabromodiphenyl ethane causing cardiac dysfunction via glucolipid metabolism disorder. ECOTOX ENVIRON SAFE. 2022 Jun;237:113534 WB ; Rat . 10.1016/j.ecoenv.2022.113534

[IF=6.376] Wang, Xiaoying. et al. LncRNA FENDRR with m6A RNA methylation regulates hypoxia-induced pulmonary artery endothelial cell pyroptosis by mediating DRP1 DNA methylation. MOL MED. 2022 Dec;28(1):1-20 WB ; Human . 36284300

[IF=4.9] Jiangzhen Yao. et al. Fat Mass- and Obesity-Associated Protein (FTO) Promotes the Proliferation of Goat Skeletal Muscle Satellite Cells by Stabilizing DAG1 mRNA in an IGF2BP1-Related m6A Manner. INT J MOL SCI. 2024 Jan;25(18):9804 WB ; Goat . 39337293