

# Product datasheet

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ARG64738 anti-FTO antibody

Package: 100 μg Store at: -20°C

# Summary

Product Description Goat Polyclonal antibody recognizes FTO

Tested Reactivity Hu

Predict Reactivity Dog, Rat, Pig

Tested Application WB

Host Goat

Clonality Polyclonal

Isotype IgG

Target Name FTO

Species Mouse

Immunogen QQKPDCRPYWEKDD

Conjugation Un-conjugated

Alternate Names EC 1.14.11.-; Alpha-ketoglutarate-dependent dioxygenase FTO; Fat mass and obesity-associated

protein; ALKBH9

## **Application Instructions**

Application table	Application	Dilution
	WB	0.03 - 0.1 μg/ml
Application Note	WB: Recommend incubate at RT for 1h.	

 $\hbox{$^*$ The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations}$ 

should be determined by the scientist.

### **Properties**

Form Liquid

Purification Purified from goat serum by antigen affinity chromatography.

Buffer Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.

Preservative 0.02% Sodium azide

Stabilizer 0.5% BSA

Concentration 0.5 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

#### Bioinformation

Database links <u>GeneID: 79068 Human</u>

Swiss-port # Q9C0B1 Human

Gene Symbol Fto

Gene Full Name fat mass and obesity associated

Background This gene is a nuclear protein of the AlkB related non-haem iron and 2-oxoglutarate-dependent

oxygenase superfamily but the exact physiological function of this gene is not known. Other non-heme iron enzymes function to reverse alkylated DNA and RNA damage by oxidative demethylation. Studies in mice and humans indicate a role in nervous and cardiovascular systems and a strong association with

body mass index, obesity risk, and type 2 diabetes. [provided by RefSeq, Jul 2011]

Function 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. Specifically demethylates N(6)-methyladenosine (m6A) RNA, the most prevalent internal modification of messenger RNA (mRNA) in higher eukaryotes. 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. [UniProt]

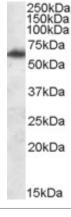
Highlight Related news:

m6A reader YTHDF2 in mRNA decay and aggresome formation;

Research Area Cell Biology and Cellular Response antibody; Metabolism antibody; Neuroscience antibody

Calculated Mw 58 kDa

#### **Images**



#### ARG64738 anti-FTO antibody WB image

Western Blot: Human Pancreas lysate (35  $\mu g$  protein in RIPA buffer) stained with ARG64738 anti-FTO antibody at 0.03  $\mu g/ml$  dilution.