

FTO Polyclonal Antibody

Catalog No: YT5033

Reactivity: Human; Mouse; Rat

Applications: WB;ELISA

Target: FTO

Gene Name: FTO

Protein Name: Alpha-ketoglutarate-dependent dioxygenase FTO

Q9C0B1

Q8BGW1

Human Gene Id: 79068

Human Swiss Prot

No:

Mouse Gene ld: 26383

Mouse Swiss Prot

No:

Rat Gene Id: 291905

Rat Swiss Prot No: Q2A121

Immunogen: The antiserum was produced against synthesized peptide derived from human

FTO. AA range:19-68

Specificity: FTO Polyclonal Antibody detects endogenous levels of FTO protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.



Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 58kD

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: function: The precise function of this protein remains to be

determined.,polymorphism:At least one intronic variation within the gene predisposes to childhood and adult obesity.,similarity:Belongs to the fto

family.,tissue specificity:Ubiquitously expressed, with relatively high expression in

adrenal glands and brain; especially in hypothalamus and pituitary.,

Subcellular Location:

Nucleus . Nucleus speckle . Cytoplasm . Localizes mainly in the nucleus, where

it is able to demethylate N(6)-methyladenosine (m6A) and N(6),2'-O-dimethyladenosine cap (m6A(m)) in U6 small nuclear RNA (snRNA),

N(1)-methyladenine from tRNAs and internal m6A in mRNAs

(PubMed:30197295). In the cytoplasm, mediates demethylation of m6A and m6A(m) in mRNAs and N(1)-methyladenine from tRNAs (PubMed:30197295). .

Expression: Ubiqu

Ubiquitously expressed, with relatively high expression in adrenal glands and

brain; especially in hypothalamus and pituitary (PubMed:17434869,

PubMed:17496892). Highly expressed in highly expressed in acute myeloid leukemias (AML) with t(11:11)(q23:23) with KMT2A/MLL1 rearrangements.

t(15;17)(g21;g21)/PML-RARA, FLT3-ITD, and/or NPM1 mutations

(PubMed:28017614).

Products Images