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.
* 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	GeneID: 79068 Human 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]
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 µg protein in RIPA buffer) stained with ARG64738 anti-FTO antibody at 0.03 µg/ml dilution.