

Anti-Alpha-ketoglutarate-dependent dioxygenase FTO [5-2H10] Standard Size Ab02550-2.0

Isotype and Format: Mouse IgG2a, Kappa

Clone Number: 5-2H10

Alternative Name(s) of Target: FTO; Fat mass and obesity-associated protein; U6 small nuclear RNA (2'-O-methyladenosine-N(6)-)-demethylase FTO; U6 small nuclear RNA N(6)-methyladenosine-demethylase FTO; mRNA (2'-O-methyladenosine-N(6)-)-demethylase FTO; m6A(m)-demethylase FTO; mRNA N(6)methyladenosine demethylase FTO; tRNA N1-methyl adenine demethylase FTO

UniProt Accession Number of Target Protein: Q9C0B1

Published Application(s): ICC, WB

Published Species Reactivity: Rat, Human, Mouse

Immunogen: This antigen was raised by immunizing a BALB/c mouse with the alpha-ketoglutaratedependent dioxygenase FTO antigen.

Specificity: This antibody is specific for the alpha-ketoglutarate-dependent dioxygenase FTO. This protein is a RNA demethylase that mediates oxidative demethylation of different RNA species, such as mRNAs, tRNAs and snRNAs, and acts as a regulator of fat mass, adipogenesis and energy homeostasis. Specifically demethylates N6-methyladenosine (m6A) RNA, the most prevalent internal modification of messenger RNA (mRNA) in higher eukaryotes.

Application Notes: This antibody was used to assess the expression of the FTO protein in cell line 3T3-L1. The method used was a western blot (Jiao et al, 2016; pmid:26907332). Immunocytochemistry with this antibody was used for examination of FTO expression in HOC313, MDA-MB-231, SAS, HeLa, 293FT, and MKN45 cells. The experiment was preformed on normal cells and FTO knock-out cells (Hirayama et al, 2020; pmid:32268083).

Antibody First Published in: Jiao et al. The Fto Gene Regulates the Proliferation and Differentiation of Pre-Adipocytes in Vitro Nutrients. 2016 Feb 19;8(2):102. PMID:26907332

Note on publication: The potential role of Fto gene on the proliferation and differentiation of preadipocytes was investigated.

Product Form

Size: 200 µg Purified antibody. **Purification:** Protein A affinity purified **Supplied In:**

© 2024 Absolute Antibody Wilton, UK. https://absoluteantibody.com/product/anti-alpha-ketoglutarate-dependentdioxygenase-fto-5-2h10/Ab02550-2.0_mouse_igg2a/standard PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at - 20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.