

Product datasheet for **TA336541**

FTO Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, Immunoblotting, WB
Recommended Dilution:	Immunoblotting, Immunohistochemistry, Western Blot: 0.5 ug/ml
Reactivity:	Human, Mouse, Primate
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A synthetic peptide within the C-terminal region (residues 400-505) of the human FTO protein. [Swiss-Prot# Q9C0B1]
Formulation:	PBS, 0.02% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	60 kDa
Gene Name:	fat mass and obesity associated
Database Link:	NP_001073901 Entrez Gene 26383 Mouse Entrez Gene 79068 Human Q9C0B1



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Background:

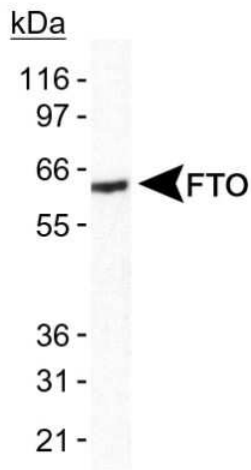
FTO (alpha-ketoglutarate-dependent dioxygenase FTO) is a novel protein belonging to FTO family and it is a nuclear dioxygenase that repairs alkylated DNA and RNA by oxidative demethylation reactions. FTO exerts highest demethylase activity towards single-stranded RNA containing 3-methyluracil, followed by single-stranded DNA containing 3-methylthymine, low activity towards single-stranded DNA containing 1-methyladenine or 3-methylcytosine and is inactive towards 1-methylguanine or double-stranded DNA. FTO requires O₂, alpha-ketoglutarate and iron (co-factor) for its activity and gets activated by ascorbate whereas its inhibitors include N-oxalylglycine, fumarate, succinate etc. It contributes to the regulation of global metabolic rate, energy expenditure/homeostasis and has been suggested to control the body size as well as accumulation of body fat. FTO has been associated with various obesity traits, insulin resistance and NIDDM, and its defects are known to cause growth retardation developmental delay coarse facies and early death (GDFD).

Synonyms:

ALKBH9; BMIQ14; GDFD

Note:

This FTO antibody is useful for Western blot analysis, where a band is seen at ~60 kDa.

Product images:

Western Blot: FTO Antibody TA336541 - Detection of FTO in human brain lysate using anti-FTO TA336541.