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Datasheet for ABIN6140795
anti-FTO antibody (AA 416-505)

2 Images

Overview

Quantity:	100 µL
Target:	FTO
Binding Specificity:	AA 416-505
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FTO antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 416-505 of human FTO (NP_001073901.1).
Sequence:	AVLHEVKREG LPVEQRNEIL TAILASLTAR QNLRREWHAR CQSRIARTLP ADQKPECRPY WEKDDASMPL PFDLTDIVSE LRGQLLEAKP
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

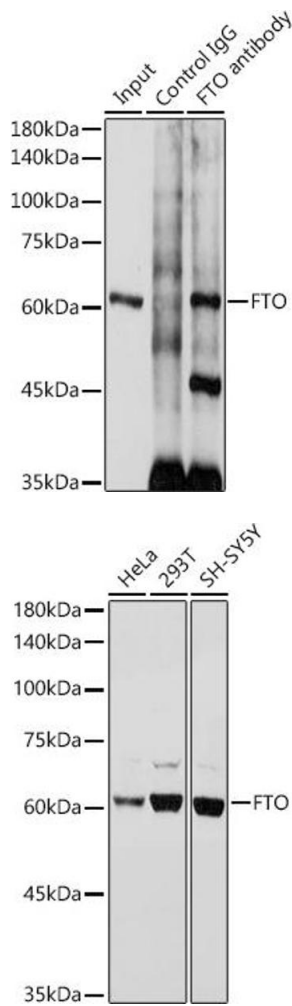
Target:	FTO
Alternative Name:	FTO (FTO Products)
Background:	This gene is a nuclear protein of the AlkB related non-haem iron and 2-oxoglutarate-dependent oxygenase superfamily but the exact physiological function of this gene is not known. Other non-heme iron enzymes function to reverse alkylated DNA 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.,FTO,ALKBH9,BMIQ14,GDFD,Epigenetics & Nuclear Signaling,Cancer,Endocrine & Metabolism,Lipid Metabolism,Endocrine and metabolic diseases,Diabetes,Metabolic disorders,Obesity,Neuroscience,Cardiovascular,Heart,Cardiovascular diseases,Heart disease,FTO
Molecular Weight:	6 kDa/12 kDa/14 kDa/58 kDa
Gene ID:	79068
UniProt:	Q9C0B1

Application Details

Application Notes:	WB,1:500 - 1:2000,IP,1:50 - 1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



Immunoprecipitation

Image 1. Immunoprecipitation analysis of 300 µg extracts of SH-SY5Y cells using 3 µg FTO antibody (ABIN6131655, ABIN6140795, ABIN6140796 and ABIN6218529). Western blot was performed from the immunoprecipitate using FTO antibody (ABIN6131655, ABIN6140795, ABIN6140796 and ABIN6218529) at a dilution of 1:1000.

Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using FTO antibody (ABIN6131655, ABIN6140795, ABIN6140796 and ABIN6218529) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.