

FTO (PT0383R) PT® Rabbit mAb

Catalog No :	YM8233
Reactivity :	Human; Mouse; Rat;
Applications :	WB;IHC;IF;IP;ELISA
Target :	FTO
Gene Name :	FTO
Protein Name :	Alpha-ketoglutarate-dependent dioxygenase FTO
Human Gene Id :	79068
Human Swiss Prot No :	Q9C0B1
Mouse Gene Id :	26383
Mouse Swiss Prot No :	Q8BGW1
Rat Gene Id :	291905
Rat Swiss Prot No :	Q2A121
Specificity :	endogenous
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, rabbit, IgG, Kappa
Dilution :	IHC 1:4000-1:10000, WB 1:1000-1:5000, IF 1:200-1:1000, ELISA 1:5000-1:20000, IP 1:50-1:200,
Purification :	Protein A
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 58kD

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.,

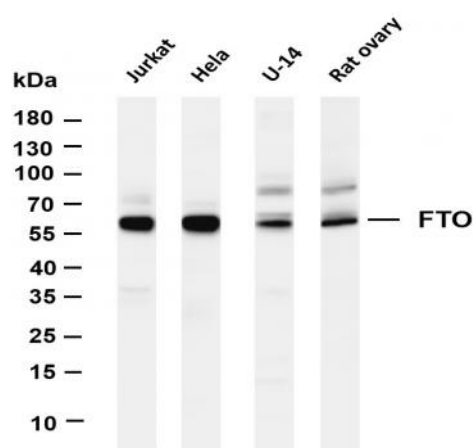
Subcellular Location :

Cytoplasm, Nucleus

Expression :

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)(q21;q21)/PML-RARA, FLT3-ITD, and/or NPM1 mutations (PubMed:28017614).

Products Images



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti- FTO (PT0383R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Jurkat Lane 2: HeLa Lane 3: U-14 Lane 4: Rat ovary Predicted band size: 58kDa Observed band size: 58kDa