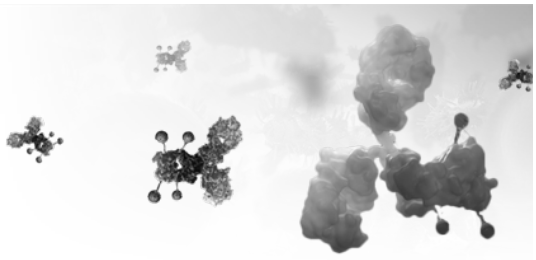

Anti-FTO (C-terminal) polyclonal antibody (CPBT-67638RH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	This product recognises human FTO, otherwise known as fat mass and obesity-associated protein, a 60kDa protein expressed ubiquitously with particularly high levels in the adrenal glands and brain. The gene was named FTO because a deletion in it resulted in fused toes and other abnormalities in mice. Since then, some correlation has been shown between carriers of the gene and obesity as well as an increased risk of Type 2 diabetes. The precise function of the gene is unknown but it shows homology with the enzyme AlkB, which oxidatively demethylates DNA. FTO gene expression has been shown to be highly upregulated in rats after food deprivation. A negative correlation with the expression of orexin peptide, which is involved in the stimulation of food intake, has also been found. Western Blotting detects a band of approximately 60kDa in epithelial cell lysates.
Specificity	FTO
Immunogen	Two peptides designed to the N- and C-terminal regions of the human FTO gene.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Conjugate	Unconjugated
Applications	ELISA; WB
Format	Serum - liquid
Size	100 µl
Preservative	0.09% Sodium Azide

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Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	FTO fat mass and obesity associated [Homo sapiens (human)]
Official Symbol	FTO
Synonyms	FTO; fat mass and obesity associated; ALKBH9; alpha-ketoglutarate-dependent dioxygenase FTO; protein fto; AlkB homolog 9; fat mass and obesity-associated protein;
Entrez Gene ID	79068
Protein Refseq	NP_001073901
UniProt ID	Q9C0B1
Chromosome Location	16q12.2
Function	DNA-N1-methyladenine dioxygenase activity; ferrous iron binding; oxidative DNA demethylase activity; oxidative RNA demethylase activity;

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