

Product datasheet

Anti-FTO antibody ab106386

3 图像

概述

产品名称	Anti-FTO抗体
描述	兔多克隆抗体to FTO
宿主	Rabbit
经测试应用	适用于: ICC/IF, WB, IHC-P
种属反应性	与反应: Human
免疫原	15 amino acid peptide from near the amino terminus of Human FTO.
阳性对照	Human uterus tissue lysate Mouse brain tissue

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at 4°C (stable for up to 12 months).
存储溶液	Preservative: 0.02% Sodium Azide Constituents: PBS
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab106386** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
ICC/IF		Use a concentration of 20 µg/ml.
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 58 kDa.
IHC-P		Use a concentration of 2.5 µg/ml.

靶标

功能

Dioxygenase that repairs alkylated DNA and RNA by oxidative demethylation. Has highest activity towards single-stranded RNA containing 3-methyluracil, followed by single-stranded DNA containing 3-methylthymine. Has low demethylase activity towards single-stranded DNA containing 1-methyladenine or 3-methylcytosine. Has no activity towards 1-methylguanine. Has no detectable activity towards double-stranded DNA. Requires molecular oxygen, alpha-ketoglutarate and iron. Contributes to the regulation of the global metabolic rate, energy expenditure and energy homeostasis. Contributes to the regulation of body size and body fat accumulation.

组织特异性

Ubiquitously expressed, with relatively high expression in adrenal glands and brain; especially in hypothalamus and pituitary.

疾病相关

Defects in FTO are the cause of growth retardation developmental delay coarse facies and early death (GRDDCFED) [MIM:612938]. The disease consists of a severe children multiple congenital anomaly syndrome with death by the age of 3 years. All affected individuals had postnatal growth retardation, microcephaly, severe psychomotor delay, functional brain deficits, and characteristic facial dysmorphism. In some patients, structural brain malformations, cardiac defects, genital anomalies, and cleft palate were also observed.

序列相似性

Belongs to the fto family.

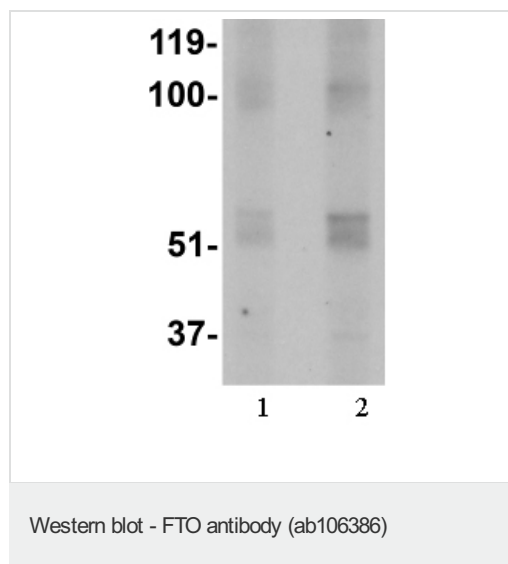
结构域

The 3D-structure of the Fe2OG dioxygenase domain is similar to that of the Fe2OG dioxygenase domain found in the bacterial DNA repair dioxygenase alkB and its mammalian orthologs, but sequence similarity is very low. As a consequence, the domain is not detected by protein signature databases.

细胞定位

Nucleus.

图片



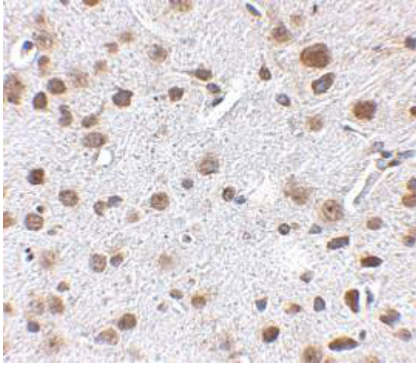
Lane 1 : Anti-FTO antibody (ab106386) at 1 $\mu\text{g/ml}$

Lane 2 : Anti-FTO antibody (ab106386) at 2 $\mu\text{g/ml}$

All lanes : Human uterus tissue lysate

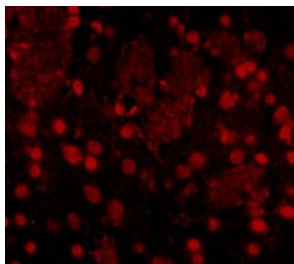
Lysates/proteins at 15 μg per lane.

Predicted band size: 58 kDa



Immunohistochemistry of FTO in Mouse brain tissue with ab106386 at 2.5 µg/ml.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - FTO antibody (ab106386)



Immunofluorescence of FTO in Mouse Brain cells using ab106386 at 20 µg/ml.

Immunocytochemistry/ Immunofluorescence-Anti-FTO antibody(ab106386)

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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