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Datasheet for 200-301-D41

FTO Antibody

Overview

Description:	Anti-FTO (Fat mass and obesity related protein) (MOUSE) Monoclonal Antibody - 200-301-D41
Item No.:	200-301-D41
Size:	100 µL
Applications:	WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	FTO Antibody detects human FTO which is the protein encoded by FTO gene that is the most robust gene for common obesity characterized to date. FTO gene expression has been found to be significantly upregulated in the hypothalamus of rats after food deprivation and strongly negatively correlated with the expression of orexin peptide which is involved in the stimulation of food intake. Deletion analysis of FTO gene in mice showed that FTO is functionally involved in the control of both energy intake and energy expenditure. Anti-FTO Antibody is ideal for investigators involved in Neuroscience and Cell Metabolism.
Synonyms:	Alpha-ketoglutarate-dependent dioxygenase FTO, KIAA1752
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	5-2H10
Format:	IgG

Target Details

Gene Name:	FTO
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-FTO Monoclonal Antibody was produced in mouse by repeated immunizations with FTO-Synthetic peptide corresponding to amino acid residues from the N-terminal region conjugated to KLH.
Purity/Specificity:	Anti-FTO antibody is directed against human Fat mass and Obesity Related Protein. Anti-FTO is a Protein G purified antibody from cell culture supernatant. Reactivity is expected with the following species based on 100% sequence homology: bovine, canine, horse, non-human primate, sheep.
Relevant Links:	• UniProtKB - Q9C0B1 • GeneID - 79068 • NCBI - AAH30798.1

Application Details

Tested Applications:	WB
Application Note:	Anti-FTO (Mouse) Antibody has been tested in Western Blotting and ICC. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 58 kDa in size corresponding to FTO proteins in Western blots of rat testes lysate. This antibody has also been used for immunocytochemistry with neuronal progenitor cells.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	1:100
WB:	1:1000

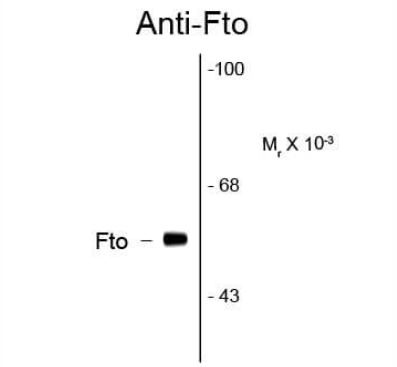
Formulation

Physical State:	Liquid
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western blot of rat testes lysate showing specific immunolabeling of the ~58k Fto protein.

Western Blot
Western Blot of Mouse Anti-FTO (Fat mass and obesity related protein) antibody. Lane 1: rat testes. Lane 2: none. Load: 10 µg per lane. Primary antibody: FTO antibody at 1:400 for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~ 58kDa/~58kDa for Fto protein. Other band(s): none.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.