

**Fto (Fat mass and obesity-associated protein) Antibody**  
**Mouse monoclonal antibody**  
**Catalog # AN1187****Specification**

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**Fto (Fat mass and obesity-associated protein) Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O9C0B1</a>
Reactivity	Human, Mouse, Rat
Predicted	Bovine, Monkey
Host	Mouse
Clonality	monoclonal
Isotype	IgG
Calculated MW	58 KDa

**Fto (Fat mass and obesity-associated protein) Antibody - Additional Information**

Gene ID	79068
Gene Name	FTO
<b>Other Names</b>	
Alpha-ketoglutarate-dependent dioxygenase FTO, 11411-, Fat mass and obesity-associated protein, FTO, KIAA1752	

**Target/Specificity**

Synthetic peptide corresponding to amino acid residues from the N-terminal region conjugated to KLH.

**Dilution**

WB~~ 1:1000

**Format**

Protein G purified culture supernatant.

**Antibody Specificity**

Specific for the ~58 kDa Fto protein in Western blots of rat testes lysate. The antibody has also been used for immunocytochemistry with neuronal progenitor cells.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Fto (Fat mass and obesity-associated protein) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Shipping**

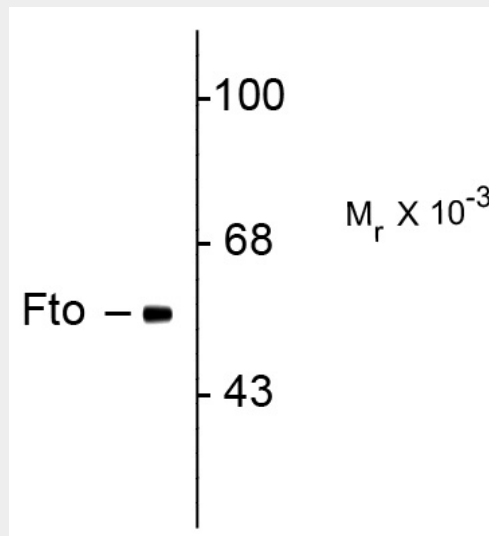
Blue Ice

## Fto (Fat mass and obesity-associated protein) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Fto (Fat mass and obesity-associated protein) Antibody - Images



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

## Fto (Fat mass and obesity-associated protein) Antibody - Background

The FTO gene 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 (Fredricksson R et al., 2008). Deletion analysis of FTO gene in mice showed that Fto is functionally involved in the control of both energy intake and energy expenditure (Fischer J et al., 2009)

## Fto (Fat mass and obesity-associated protein) Antibody - References

Fredriksson R, Hägglund M, Olszewski PK, Stephansson O, Jacobsson JA, Olszewska AM, Levine AS, Lindblom J, Schiöth HB (2008). The obesity gene, FTO, is of ancient origin, upregulated during food deprivation and expressed in neurons of feeding-related nuclei of the brain. *Endocrinology* 149: 2062.

Fischer J, Koch L, Emmerling C, Vierkotten J, Peters T, Brüning JC, Rüther U. (2009). Inactivation of the Fto gene protects from obesity. *Nature* 458: 894.