

Product Datasheet

FTO Antibody NB110-60935

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB110-60935

FTO Antibody

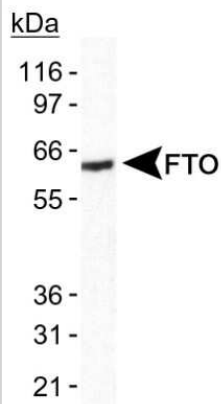
Product Information	
Unit Size	0.1 ml
Concentration	1.1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)
Target Molecular Weight	60 kDa

Product Description	
Host	Rabbit
Gene ID	79068
Gene Symbol	FTO
Species	Human, Mouse, Chicken, Primate
Reactivity Notes	Chicken reactivity reported in scientific literature (PMID: 22019092).
Immunogen	A synthetic peptide within the C-terminal region (residues 400-505) of the human FTO protein. [Swiss-Prot# Q9C0B1]

Product Application Details	
Applications	Western Blot, Immunoblotting, Immunohistochemistry
Recommended Dilutions	Western Blot 0.5 ug/ml, Immunohistochemistry reported in scientific literature (PMID 28205605), Immunoblotting reported in scientific literature (PMID 22019092)
Application Notes	In Western blot analysis, a band is seen at ~60 kDa. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

Images

Western Blot: FTO Antibody [NB110-60935] - Detection of FTO in human brain lysate using anti-FTO NB110-60935.



Publications

Zuidhof H, Müller C, Kortman G et al. Oncogenic functions of the m6A demethylase FTO in breast cancer cells involving translational upregulation of C/EBP β -LIP bioRxiv 2023-09-23 (WB, Human)

Cieřla M, Ngoc PCT, Muthukumar S et al. m6A-driven SF3B1 translation control steers splicing to direct genome integrity and leukemogenesis Molecular cell 2023-03-08 [PMID: 36944332] (WB, Human)

Garcia Baucells P A focus on epitranscriptomics and aging: The effect of m6A (m) modulation on C/EBP beta isoform expression Thesis 2022-01-01

Sikorski K, Mehta A et al. A high-throughput pipeline for validation of antibodies. Nat Methods 2018-01-11 [PMID: 30377371] (Human)

Details:

Antibody validation based on denaturing gel electrophoresis of biotinylated cell lysates (PAGE) followed by mass spectrometry (MS) and antibody array analysis (MAP).

Cloning and characterization of chicken fat mass and obesity associated (Fto) gene: fasting affects Fto expression. Tiwari A, Krzysik-Walker SM, Ramachandran R Domest Anim Endocrinol [PMID: 22019092] (WB, Chicken)

Walters BJ, Mercaldo V, Gillon CJ et al. The Role of The RNA Demethylase FTO (Fat Mass and Obesity-Associated) and mRNA Methylation in Hippocampal Memory Formation. Neuropsychopharmacology. 2017-03-15 [PMID: 28205605]



Procedures

Serum protocol for FTO Antibody (NB110-60935)

FTO Antibody:

Western Blot Protocol

1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 35 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH₂O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% non-fat dry milk + 1% BSA in TBS, overnight at 4C.
6. Rinse the membrane in dH₂O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the rabbit anti-FTO primary antibody (NB110-60935) in blocking buffer and incubate 1 hour at room temperature.
8. Rinse the membrane in dH₂O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions (Pierce Pico ECL).

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.





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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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