

FTO (D2V1I) Rabbit mAb



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| Applications: W | Reactivity: H M R | Sensitivity: Endogenous | MW (kDa): 60 | Source/Isotype: Rabbit IgG | UniProt ID: #Q9C0B1 | Entrez-Gene Id: 79068 |
|------------------------------|----------------------|---|--|--|--|---|
| Product Usage Information | | Application Western Blotting | | | Dilution 1:1000 | |
| Storage | | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody. | | | | |
| Specificity/Sensitivity | | FTO (D2V1I) Rabbit mAb recognizes endogenous levels of total FTO protein. | | | | |
| Source / Purification | | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly87 of human FTO protein. | | | | |
| Background | | FTO (fat mass and obesity-associated protein) is the first obesity gene product identified by genome-wide association studies and it is associated with the largest effect size for this class of proteins (1-4). Multiple single-nucleotide polymorphisms (SNPs) in the first intron of the <i>FTO</i> gene have been associated with increased body weight and obesity. Further studies reported that <i>FTO</i> risk alleles were associated with an increase in energy intake, a reduction of activity, and possibly an increased daily fat intake (4). | | | | |
| | | Among its targets is a functions, and feeding significant reduction in increased energy expe | n mRNA subset involg (5). Loss of the FTG andipose tissue. Menditure and system increased food intak | catalyzes the oxidative of blood in regulation of lead of gene in mice leads to pice deficient in the FTO on activation of sympathe and results in obesity. sis (6-8). | arning, reward beha postnatal growth re gene have lean bod netic neurons, while | avior, motor tardation and a y mass due to e overexpression of |
| Background References | | 1. Frayling, T.M. et al. (2002) 2. Scuteri, A. et al. (2007) 3. Dina, C. et al. (2007) 4. Gulati, P. and Yeo, G 5. Hess, M.E. et al. (2009) 7. Tews, D. et al. (2013) 8. Church, C. et al. (2013) | 77) <i>PLoS Genet</i> 3, e Nat Genet 39, 724 S. (2013) <i>Diabetolo</i> 13) Nat Neurosci 16 9) Nature 458, 894-) <i>Endocrinology</i> 15 | 115. -6. <i>ogia</i> 56, 2113-21. , 1042-8. 3. 4, 3141-51. | | |
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| Species Reactivity | | Species reactivity is determined by testing in at least one approved application (e.g., western blot). | | | | |
| Western Blot Buffer | | IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight. | | | | |
| Applications Key | | W: Western Blotting | | | | |
| Cross-Reactivity Key | | H: Human M: Mouse R: Rat | | | | |
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