

Product Datasheet

TTC11 Antibody NB100-56646

Unit Size: 0.2 ml

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

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NB100-56646

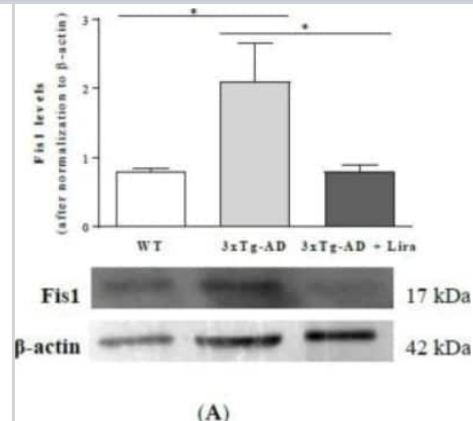
TTC11 Antibody

Product Information	
Unit Size	0.2 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Unpurified
Buffer	Whole antisera with PBS and 0.05% BSA
Product Description	
Host	Rabbit
Gene ID	51024
Gene Symbol	FIS1
Species	Human, Mouse, Rat
Reactivity Notes	Predicted to react with Chimpanzee (66%), Canine (93%). Rat and mouse reactivity reported in scientific literature.
Immunogen	Amino acids 11-25 of human Fis1 protein were used as the immunogen.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockdown Validated
Recommended Dilutions	Western Blot 1:500 - 1:1000, ELISA reported in scientific literature (PMID 27494529), Immunohistochemistry, Immunocytochemistry/ Immunofluorescence reported in scientific literature (PMID 34999205), Immunohistochemistry-Paraffin 1:100. Use reported in scientific literature (Wang et al (2009)), Knockdown Validated

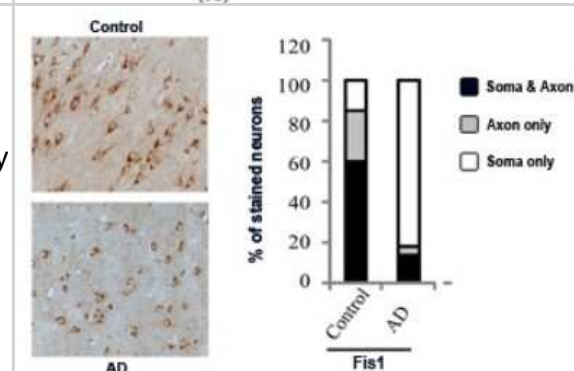


Images

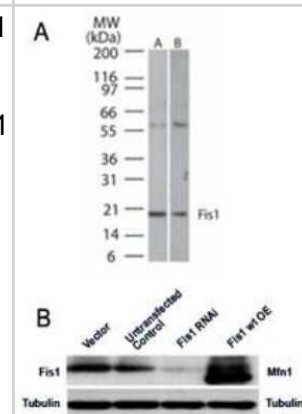
Western Blot: TTC11 Antibody [NB100-56646] - Effect of liraglutide on brain cortical mitochondrial fission/fusion markers in female mice with early AD-like pathology. Brain cortical Fis1 (A) protein levels were determined and normalized to beta-actin levels, and representative Western blotting images displayed. Data are the mean \pm SE from 6 mice/group. Statistical significance: * $p < 0.05$, by the one-way ANOVA with the Fisher LSD post-hoc test for multiple comparisons. Image collected and cropped by CiteAb from the following publication (<https://www.mdpi.com/1422-0067/21/5/1746>), licensed under a CC-BY license.



Immunohistochemistry-Paraffin: TTC11 Antibody [NB100-56646] - Analysis of methcarn-fixed, paraffin-embedded hippocampus from control (normal) and Alzheimer brain. Quantification in five AD brains and five age-matched controls indicated that Fis1 was detected in only the soma in ~80% of pyramidal neurons in AD hippocampus, significantly different from what was seen for control hippocampal neurons. Source: Wang et al, 2009.



Knockdown Validated: TTC11 Antibody [NB100-56646] - Analysis of Fis1 in A) human HeLa and B) mouse NIH 3T3 lysate using Fis1 antibody at 1:1000 dilution. B. Specificity validation of the Fis1 antibody. Fis1 was analyzed in M17 cells stably transfected with vector only, Fis1 RNAi, Fis1 (Fis1wt OE) or left untransfected (negative control). The western blot data showed that M17 cells expressed Fis1 (Vector, Untransfected control) which could be knocked down by Fis1 RNAi. Cells transfected with Fis1 overexpressed Fis1. M17 is a human neuroblastoma cell line.



Publications

Wongkitikamjorn W, Hosomichi J, Wada E et al. Gestational Intermittent Hypoxia Induces Mitochondrial Impairment in the Geniohyoid Muscle of Offspring Rats *Cureus* 2022-05-17 [PMID: 35600069] (IHC, WB)

Gao QY, Zhang HF, Tao J et al. Mitochondrial Fission and Mitophagy Reciprocally Orchestrate Cardiac Fibroblasts Activation *Frontiers in Cell and Developmental Biology* 2021-01-21 [PMID: 33585469] (WB)

Beatriz M, VilaCa R, Anjo S et al. Defective mitochondria lysosomal axis enhances the release of extracellular vesicles containing mitochondrial DNA and proteins in Huntington's disease *Journal of Extracellular Biology* 2022-10-01 (WB, Human)

Details:
Dilution used in WB 1:1000

Lim S Sex Differences in Cancer Cachexia and a Novel Mitochondrial Target for Cancer-Induced Muscle Wasting Thesis Jan 1 2022 12:00AM (WB, Mouse)

Vijayan M, Reddy PH Reduced VDAC1, Maintained Mitochondrial Dynamics and Enhanced Mitochondrial Biogenesis in a Transgenic Tau Mouse Model of Alzheimer's Disease *International journal of molecular sciences* 2022-08-02 [PMID: 35955694] (WB, IF/IHC, Mouse)

Details:
WB dilution used 1:1000, IHC dilution used 1:102

Wang X, Tang Y, Xie N et al. Salidroside, a phenyl ethanol glycoside from *Rhodiola crenulata*, orchestrates hypoxic mitochondrial dynamics homeostasis by stimulating Sirt1/p53/Drp1 signaling *Journal of ethnopharmacology* 2022-04-16 [PMID: 35439546] (WB, Mouse)

Lim S, Deaver JW, Rosa-Caldwell ME et al. Muscle miR-16 deletion results in impaired insulin sensitivity and contractile function in a sex-dependent manner *American journal of physiology. Endocrinology and metabolism* 2022-01-24 [PMID: 35068192]

Aloysius Dhivya M, Sulochana K, Devi S High glucose induced inflammation is inhibited by copper chelation via rescuing mitochondrial fusion protein 2 in retinal pigment epithelial cells *Cellular Signalling* 2022-01-01 [PMID: 34999205] (ICC/IF, Human)

Awasthi S, Hindle A, Sawant NA Et al. RALBP1 in Oxidative Stress and Mitochondrial Dysfunction in Alzheimer's Disease *Cells* 2021-11-10 [PMID: 34831336]

Lim S, Deaver JW, Rosa-Caldwell ME Et al. Development of metabolic and contractile alterations in development of cancer cachexia in female tumor-bearing mice *Journal of applied physiology (Bethesda, Md. : 1985)* 2021-11-11 [PMID: 34762526]

Rosa-Caldwell ME, Lim S, Haynie WS Et al. Mitochondrial aberrations during the progression of disuse atrophy differentially affect male and female mice *Journal of cachexia, sarcopenia and muscle* 2021-09-29 [PMID: 34585846] (WB, Mouse)

Ramya R, Bharathidevi SR Paraoxonase 2 protects against the CML mediated mitochondrial dysfunction through modulating JNK pathway in human retinal cells *Biochimica et biophysica acta. General subjects* 2021-10-25 [PMID: 34710487] (ICC/IF, WB, Human)

More publications at <http://www.novusbio.com/NB100-56646>





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