



Supplemental Fig. S3. Representative picture of Western blotting in the brain tissue of normal diet-fed rats (ND) versus high-fat diet-fed rats (HFD) at follow-up (week 28). PGC-1 α , peroxisome proliferator-activated receptor gamma coactivator-1 α ; p-AMPK, phosphorylated-activated protein kinase; AMPK, activated protein kinase; p-IRS, phosphorylated-insulin receptor substrate 1; IRS, insulin receptor substrate 1; MFN1, mitofusin 1; MFN2, mitofusin 2; OPA1, optic atrophy 1; p-DRP1^{ser616}, phosphorylated-dynamin-related at serine⁶¹⁶; DRP1, dynamin-related protein 1; PINK1, PTEN-induced kinase 1; LC3-II, light chain 3-II; Bax/Bcl, Bcl-2-associated X protein/B-cell lymphoma; GPX4, glutathione peroxidase 4; SOD2, superoxide dismutase 2; TNF- α , tumor necrosis factor- α ; p-NF κ B, phosphorylated-nuclear factor kappa-light-chain-enhancer of activated B cells; NF κ B, nuclear factor kappa-light-chain-enhancer of activated B cells; PSD-95, postsynaptic density protein 95; p-TrkB, phosphorylated-tropomyosin receptor kinase B; TrkB, tropomyosin receptor kinase B; BDNF, brain-derived neurotrophic factor; DCX, doublecortin; p-Tau, phosphorylated-Tau; APP, amyloid-beta precursor protein; A β , amyloid β ; BACE-1, beta-site amyloid precursor protein cleaving enzyme 1; sRAGE, soluble-receptor for advanced glycation end product.