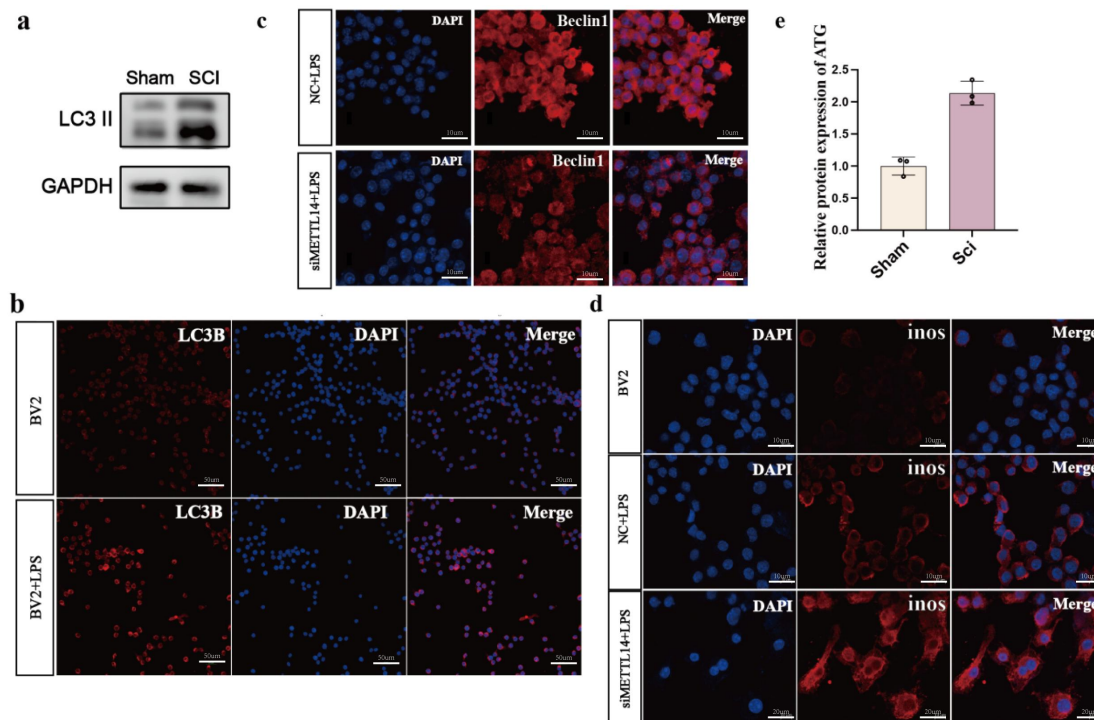




(a) Representative Western blot showing LC3-II protein levels in spinal cord tissue from sham and SCI mice at 2 weeks post-injury, with GAPDH serving as a loading control. (b) Immunofluorescence staining of LC3B in BV2 microglial cells under basal conditions and following LPS stimulation, showing enhanced autophagic activity upon inflammatory activation. Nuclei were counterstained with DAPI. Scale bar=50 μ m (c) Immunofluorescence staining of Beclin1 in BV2 microglial cells transfected with siMETTL14 or negative control (NC) and stimulated with LPS, showing impaired autophagic activation under METTL14-deficient conditions. Nuclei were counterstained with DAPI. Scale bar =10 μ m. (d) Immunofluorescence staining of iNOS in BV2 microglial cells transfected with siMETTL14 or negative control (NC) following LPS stimulation, demonstrating enhanced inflammatory responses upon METTL14 knockdown. Nuclei were counterstained with DAPI. Scale bar =10 μ m. (e) Quantification of ATG13 protein expression in spinal cord tissue from sham and SCI mice at 2 weeks post-injury, with corresponding statistical analysis shown in Supplementary Figure S1e.

figure 2

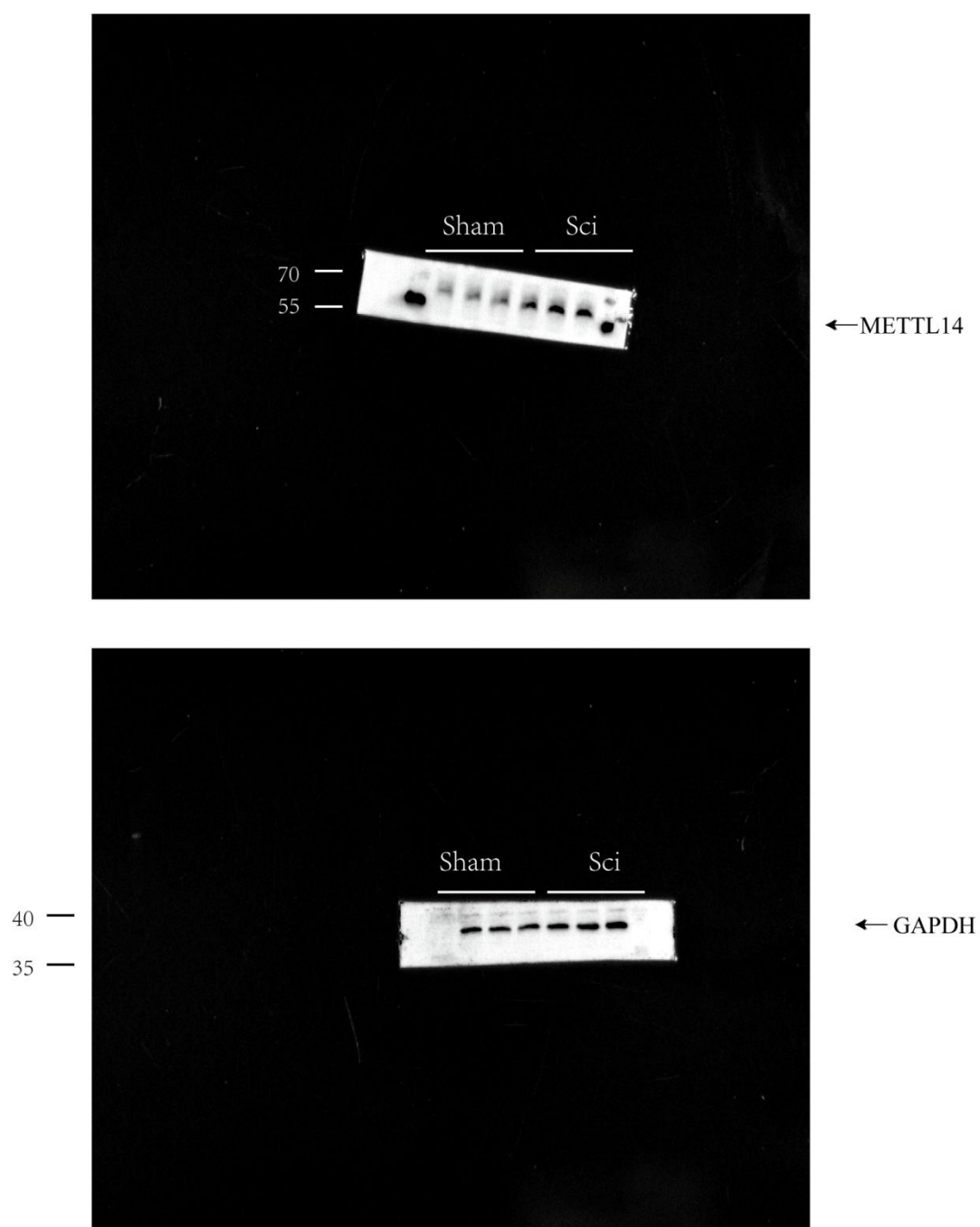


figure 3

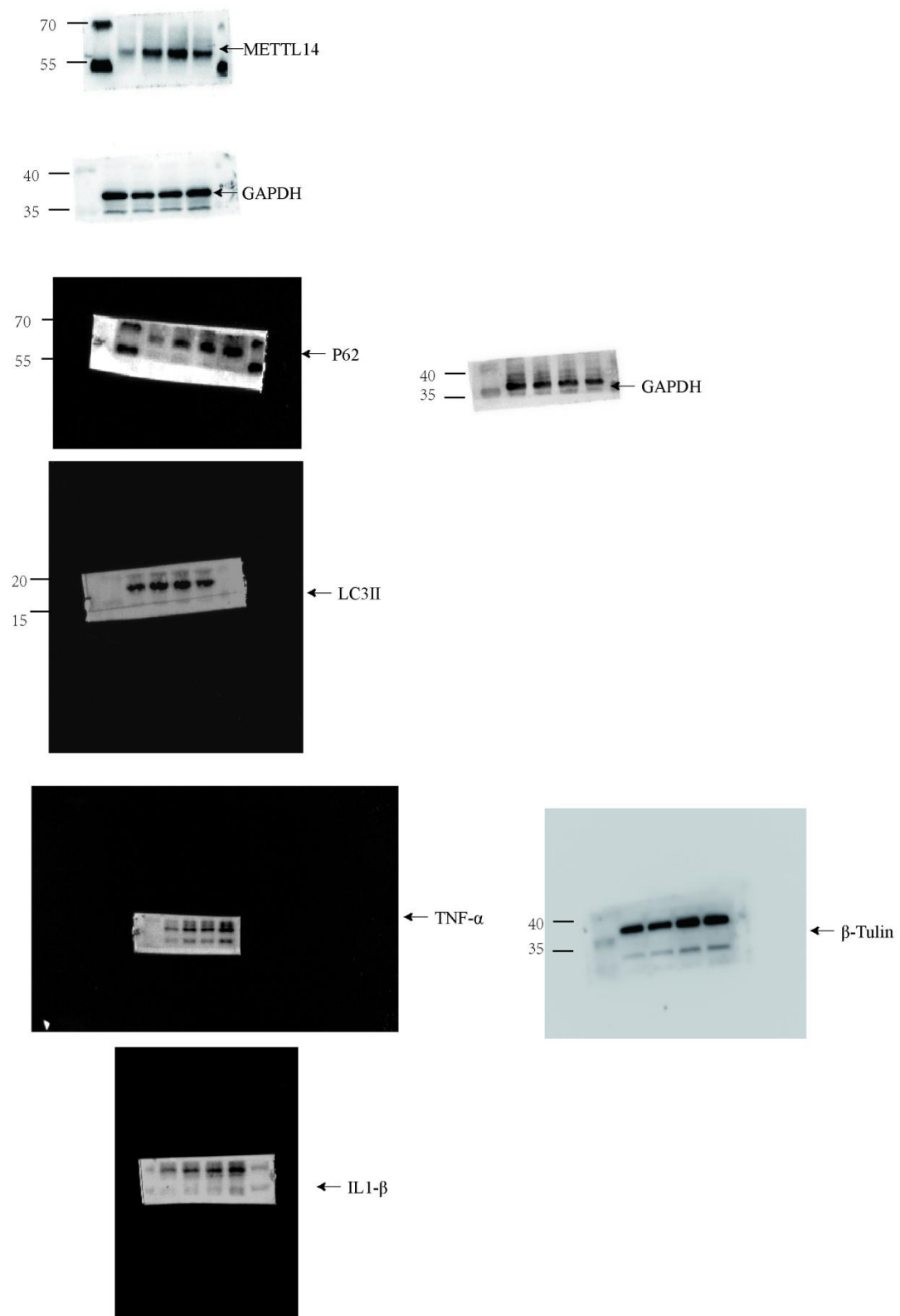


figure 4

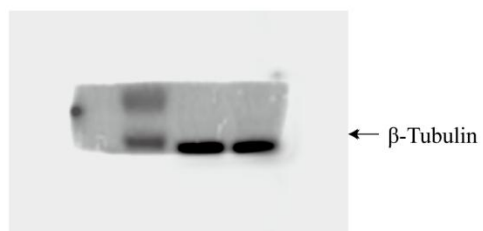
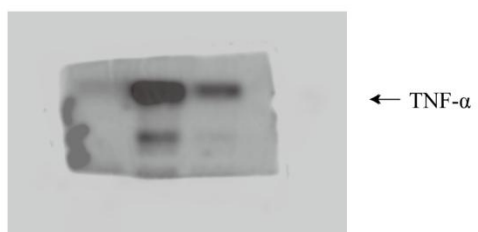
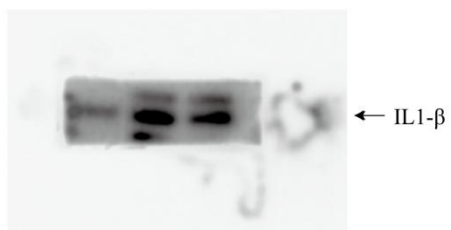
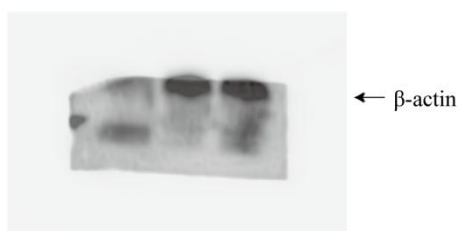
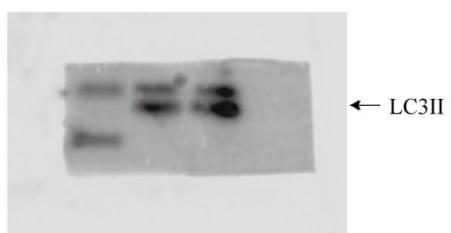
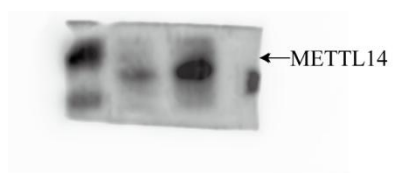


figure 5

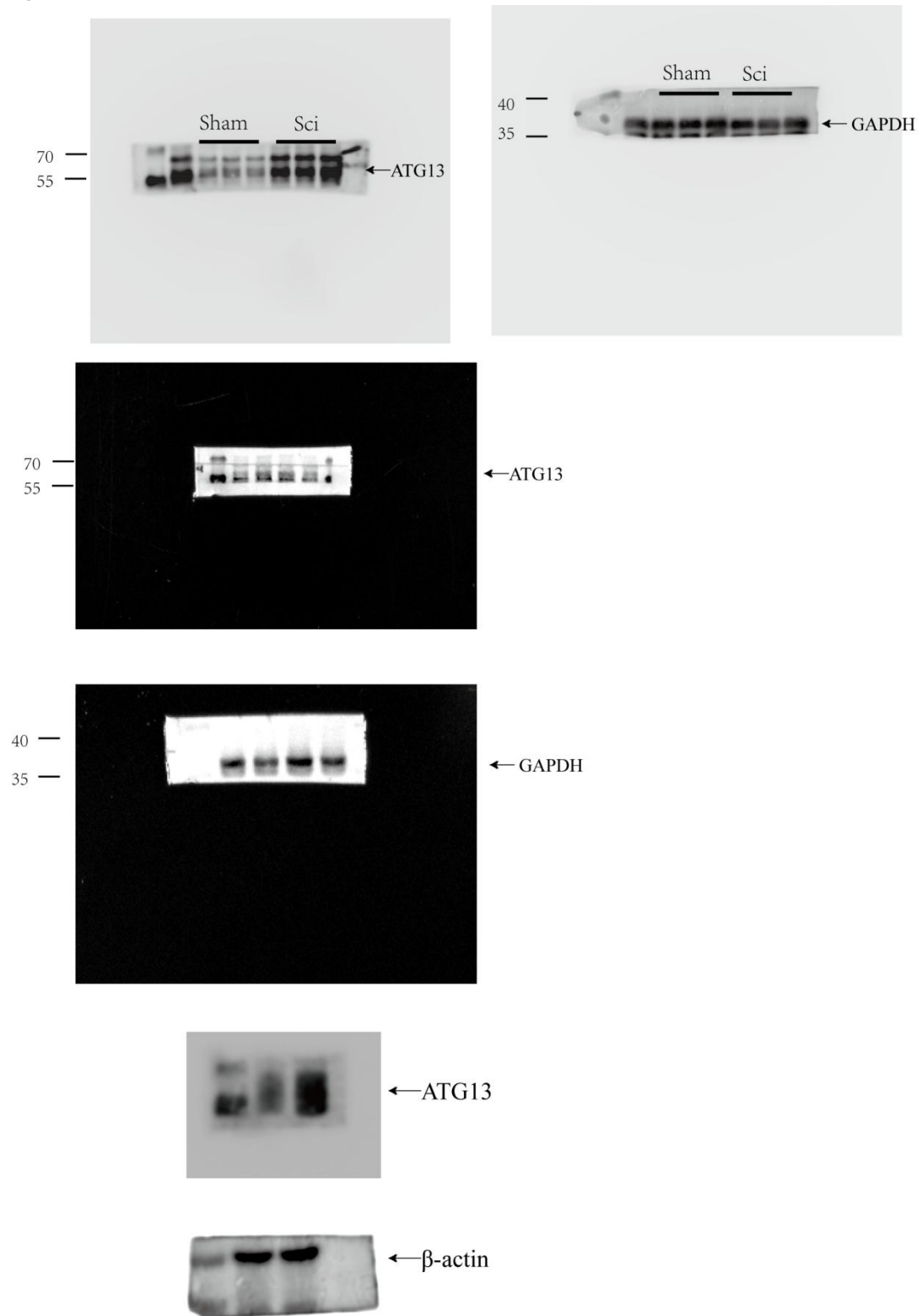


figure 6

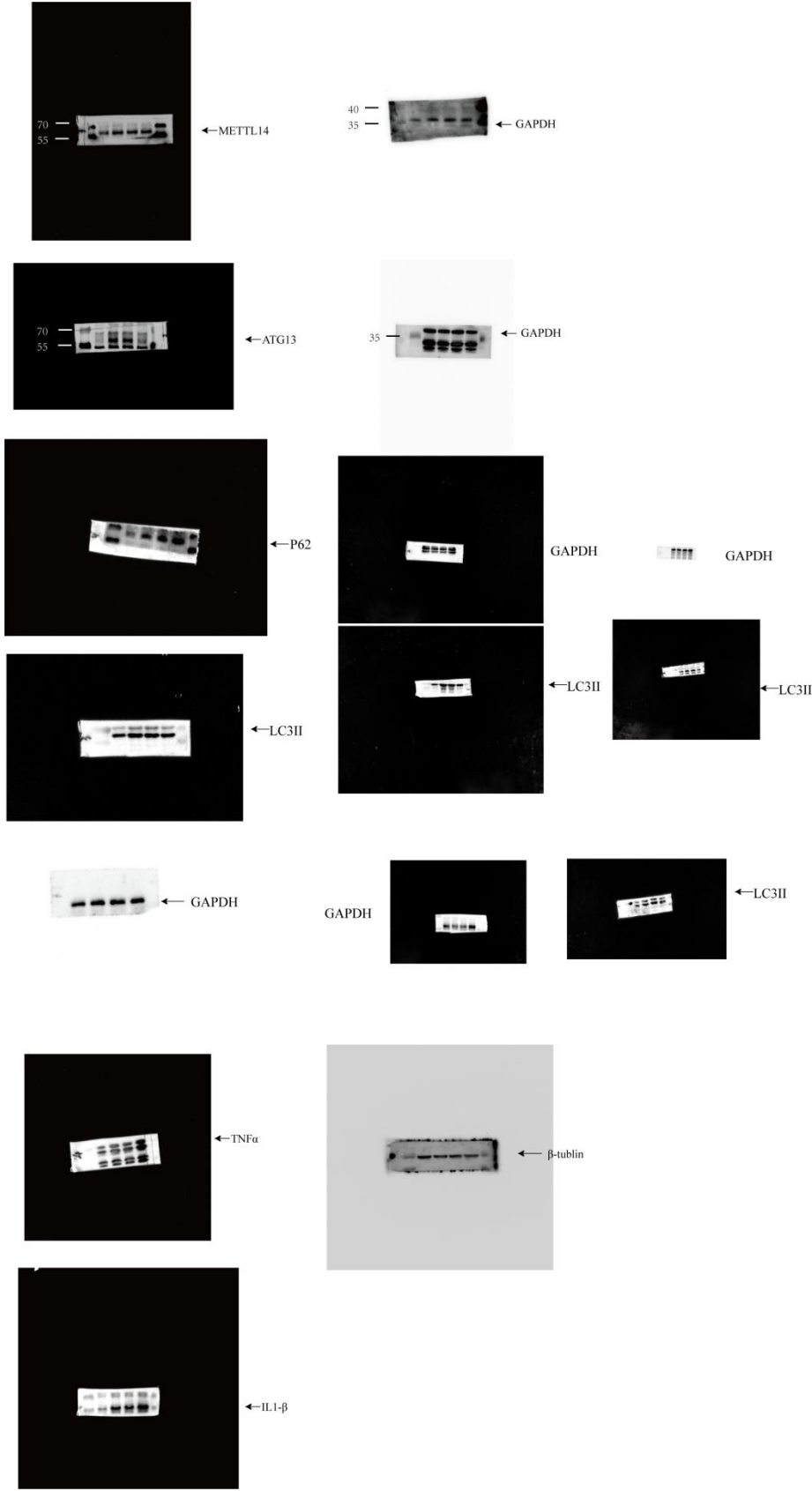


figure 7

