

Supplemental Data

for

Granulomatous myositis induced by anti-PD-1 monoclonal antibodies

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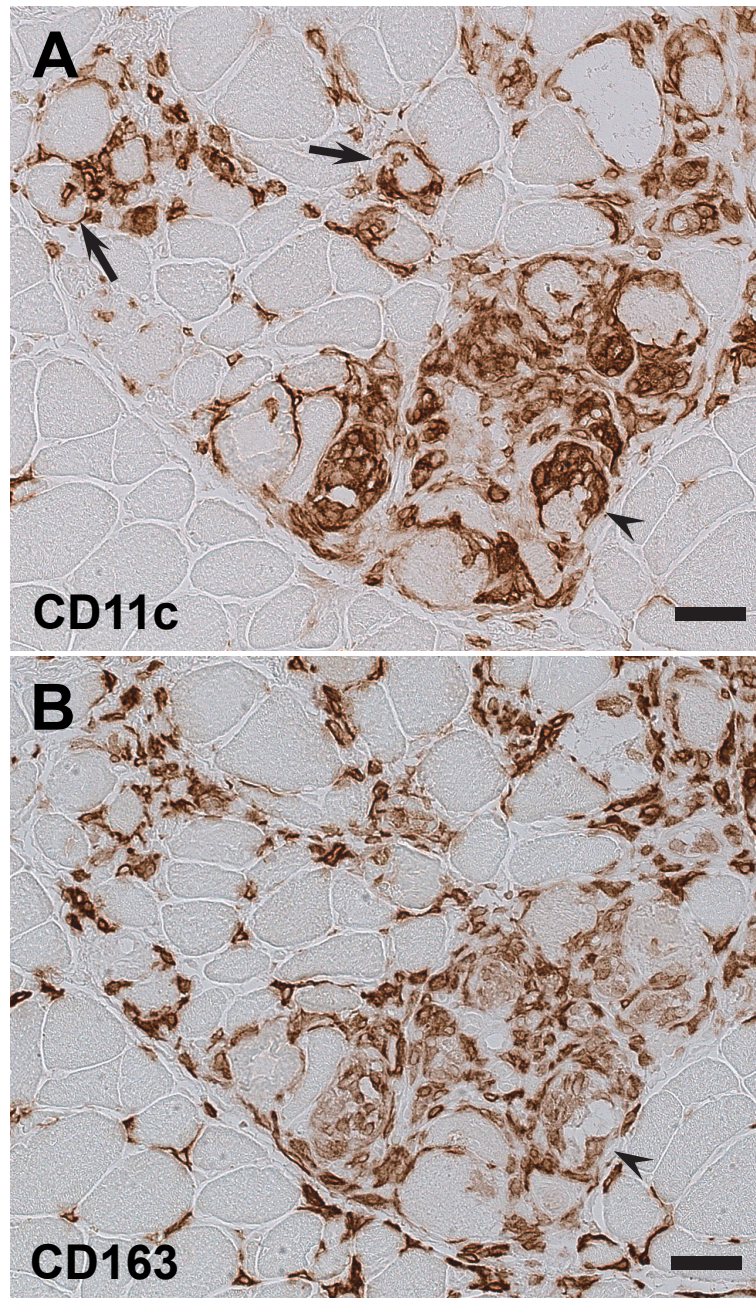


Figure e-1 Immunohistochemistry of CD11c and CD163 of case 1

Serial sections immunostained for (A) CD11c and (B) CD163 showing macrophages forming granulomatous aggregates in muscle fibers consisting of CD11c+ M1 and CD163+ M2 macrophages. CD11c+ macrophages attacking non-necrotic fibers are observed (arrows). Arrowheads indicate the same fiber shown in figure 1, B, C, and D. Bars: 50 µm.

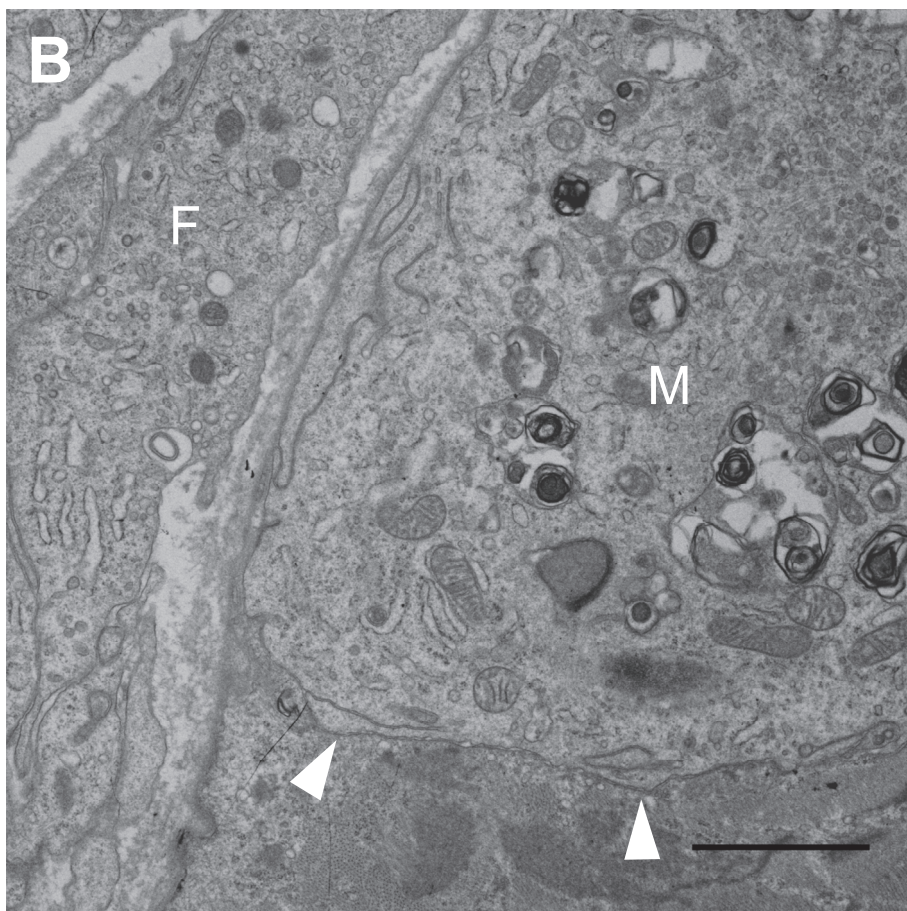
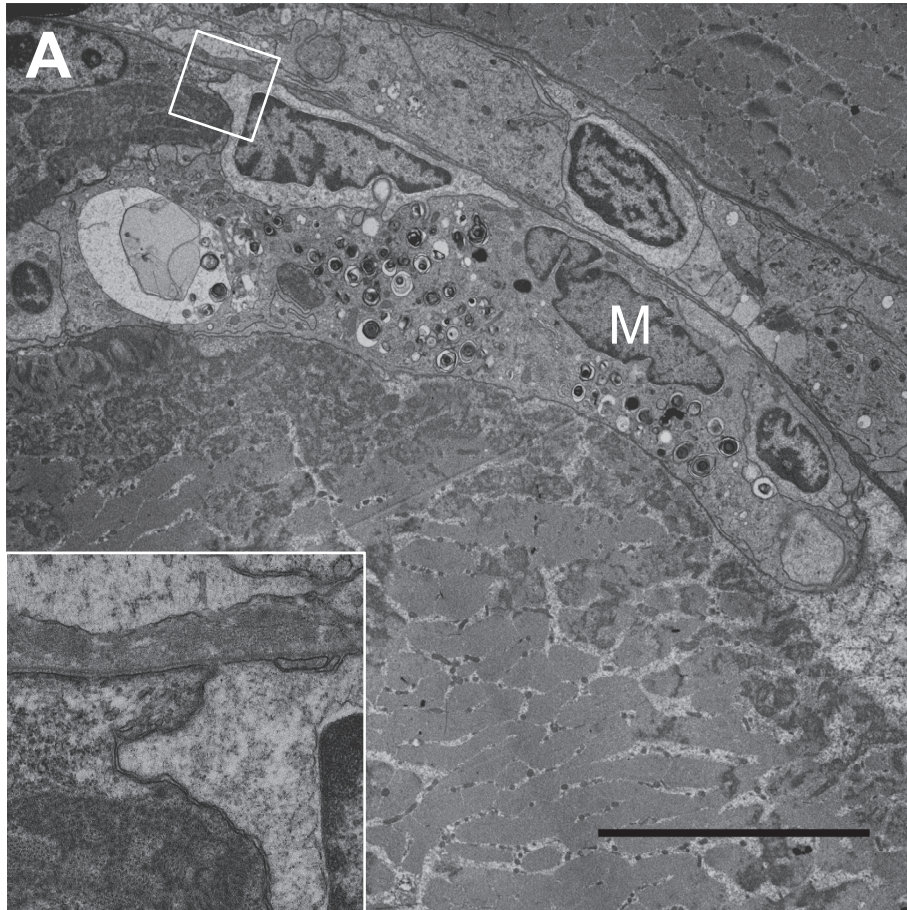


Figure e-2 Electron micrographs of muscle fibers invaded by mononuclear cells in case 1

(A) Invasion into a non-necrotic muscle fiber by mononuclear cells including a macrophage (M) containing myelin debris. Note that invading mononuclear cells are inside the basal lamina of the invaded muscle fiber (inset). (B) There is no basal lamina between the macrophage (M) and the invaded muscle fiber (arrowheads). A fibroblast (F) exists outside the basal lamina of the muscle fiber. The fiber invaded by the macrophage shows disorganization of muscle fibrils around the area coming in contact with the macrophage. Bars: 10 μm for A, and 2.5 μm for B.