***Supplementary materials for*：**

**Effect of triptolide on DSS-induced ulcerative colitis and gut microbiota in mice**

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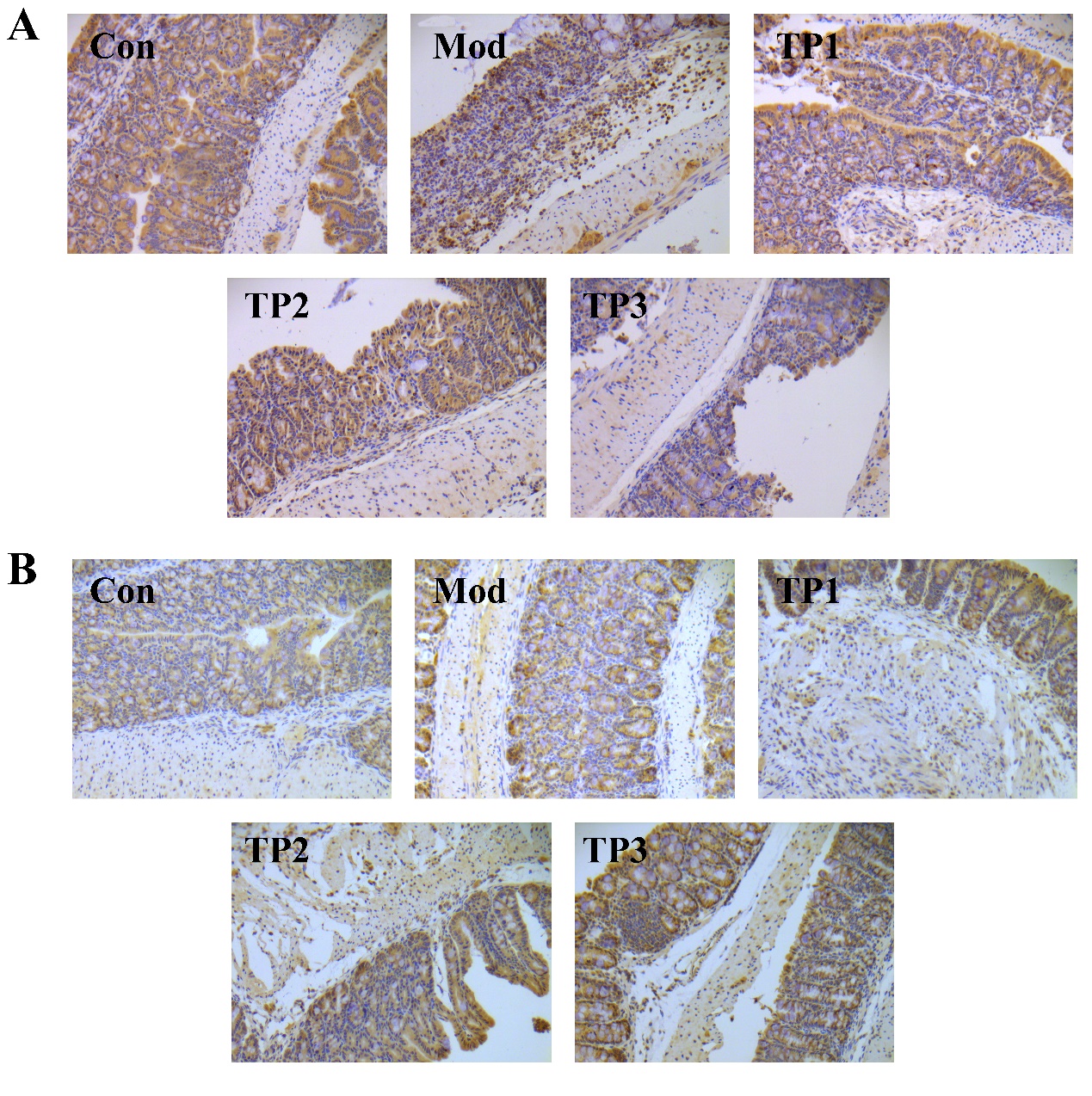
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**1. Immunohistochemistry**

****The intestinal tissue of the UC model was obtained for immunohistochemical staining, and the expression of CD3 and FoxP3 was observed to detect changes in T cell and regulatory T cell populations in the lesions and to analyze the effects of triptolide treatment. As a result, we found a significant increase in T lymphocyte infiltration in the colon tissues of mice with UC. After treatment with triptolide, T cell infiltration reduced and inhibitory T cell population increased **(Figure S1)**. Thus, triptolide could ameliorate the infiltration of inflammatory cells in the diseased intestinal tissues and transform the surrounding immune microenvironment from immune activation to immune tolerance. This transformation is very important for the treatment and prognosis of UC.

**Figure S1:** Triptolide affected the infiltration of lymphocytes in colon tissues. (A) CD3 staining (200×). (B) FoxP3 staining (200×).