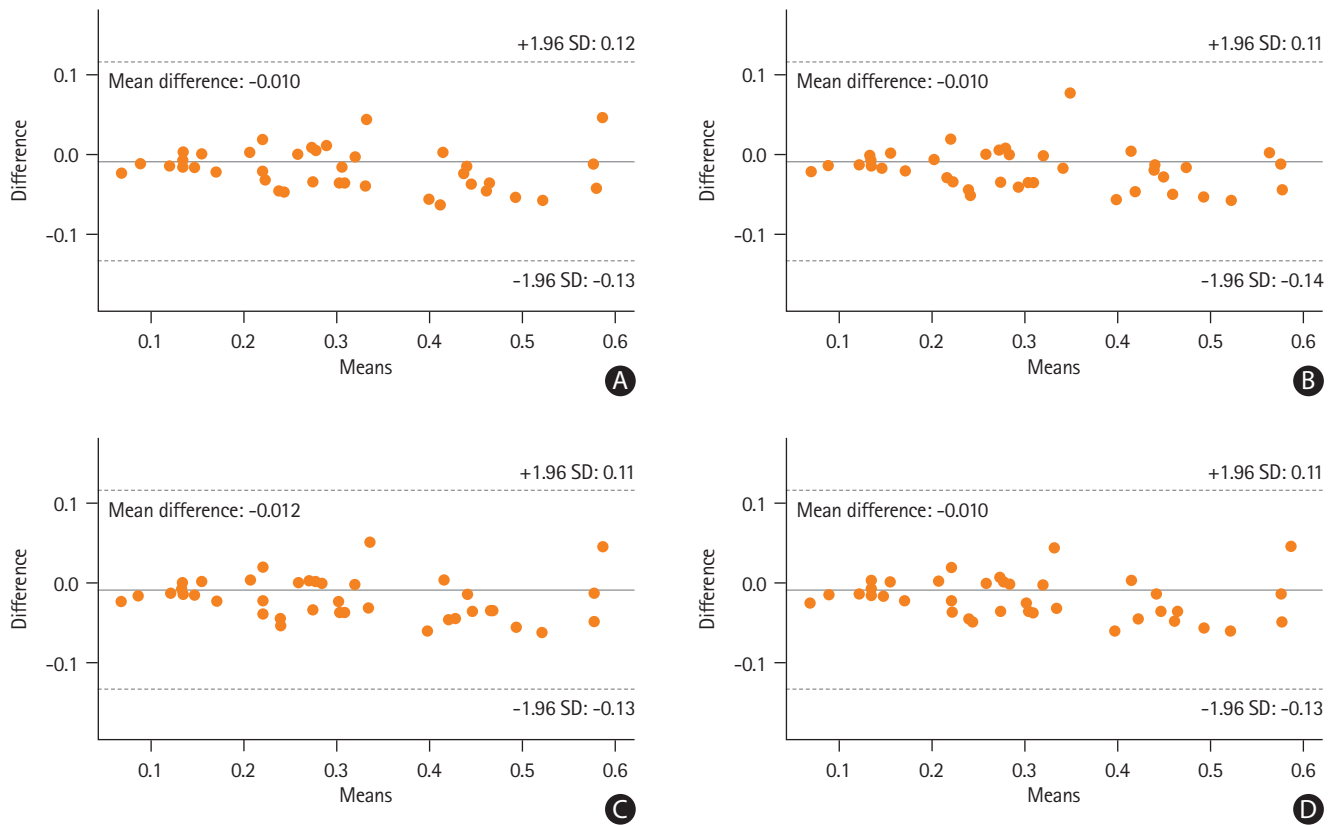**Supplementary Figure 1.** Imaging analysis process performed by Automated Region-of-interest based Image Analysis (ARIA). IHC, immunohistochemistry; CSV, comma separated value.

Supplementary Figure 2. Bland-Altman plots of stained ratio results from each analyst using Automated Region-of-interest based Image Analysis (ARIA) compared to those of the professional analyst using the traditional method: (A) the professional analyst, (B) trained analyst, (C) untrained analyst 1, and (D) untrained analyst 2. SD, standard deviation.