



Supplementary Figure 1 Representative *Helicobacter pylori* serological test blot picture. Serological measurements of *H. pylori* antibody. Five ml of fasting venous blood sample was collected from each participant. All samples were centrifuged at $1500 \times g$ for 5 min and analyzed within 2 h of blood collection. The procedure followed manufacturers' instructions; Determination of *H. pylori* positivity from blood samples: (1) Type I *H. pylori* antibody positive: either or both of CagA and VacA bands were present; (2) Type II *H. pylori* antibody positive: only one of urease (Ure) A and UreB bands or both appeared, no CagA, VacA bands were present; and (3) *H. pylori* antibody negative: only control band appeared in color-developing zone, and no positive zone was observed.