Supplementary Figure Legends:

Figure 1. Anti-EMP2 IgG1 can detect EMP2 in human tissue. (A) Biotinylated anti-EMP2 IgG1 was used to detect EMP2 in xenografts created from endometrial carcinoma cells that overexpress EMP2 (HEC1a/EMP2) and lung. Magnification: 400X. (B) The biotinylated human EMP2 IgG1 detected EMP2 in breast tumors. Significantly higher levels of EMP2 were detected in the tumor compared to normal tissue. Magnification: 400X. (C) The specificity of the human EMP2 IgG1 was confirmed by preincubating the antibody with EMP2 specific peptide.

Figure 2. The serum levels of the human EMP2 IgG1 was compared to those of Trastuzamab. 100 μg of either antibody was injected IV into Balb/c mice. Concentration of each antibody in the serum of mice was determined by ELISA over time.