

Figure S1. Immunohistochemical and DISH analysis of HER-2 in breast cancer. (A) Immunohistochemical score 0. No staining on tumor cell membrane. (B) Immunohistochemical score 1. Faintly perceptible staining on >10% tumor cell membrane. (C) Immunohistochemical score 2. Moderate staining on >10% tumor cell membrane. (D) Immunohistochemical score 3. Strong staining on >10% tumor cell membrane. (E) Case with HER-2 amplification using DISH analysis. Pink color indicates the reference probe of Chr. 17 centromere, while brown color is the target probe for HER-2. Scale bars, 200 μ m. DISH, dual color *in situ* hybridization.

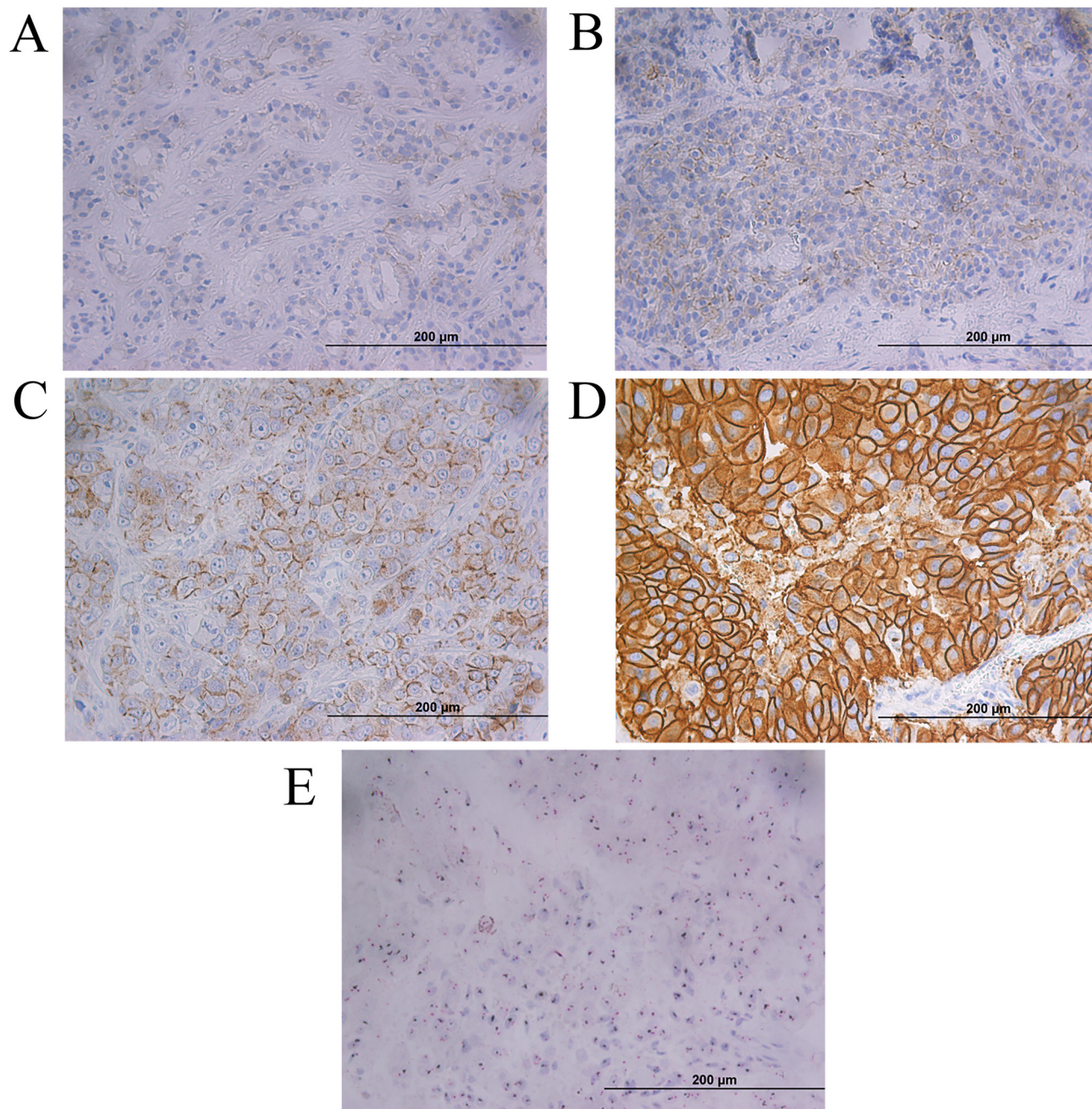


Table SI. Sensitivity, specificity and positive likelihood ratio of each β 2-microglobulin cut-off value in predicting metastatic breast cancer.

Cut-off value, $\mu\text{g/ml}$	Sensitivity, %	Specificity, %	Positive likelihood ratio
>1.4	100.00	15.10	1.1779
>1.5	87.50	21.35	1.1126
>1.6	87.50	37.50	1.4000
>1.7	87.50	47.92	1.6800
>1.8	87.50	58.33	2.1000
>1.9	87.50	64.58	2.4706
>2.0	75.00	72.40	2.7170
>2.1	62.50	77.60	2.7907
>2.2	62.50	82.29	3.5294
>2.3	62.50	85.42	4.2857
>2.4	37.50	87.50	3.0000
>2.5	37.50	89.58	3.6000
>2.6	25.00	91.67	3.0000
>2.7	12.50	92.71	1.7143
>2.8	12.50	93.75	2.0000
>3.1	12.50	94.79	2.4000
>3.2	12.50	95.31	2.6667
>3.3	12.50	95.83	3.0000
>3.4	12.50	96.35	3.4286
>3.5	12.50	97.40	4.8000
>3.8	12.50	97.92	6.0000
>4.0	12.50	98.96	11.9999
>4.2	12.50	100.00	NA

NA, could not be analyzed.