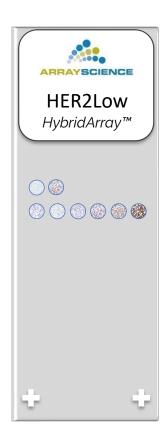


Technical Data Sheet

Breast HER2Low HybridArray™ Control

Catalog #	BC-8-1-3-1	
CMA/Lot #	1440	
Intended Use	Research Use Only	

Description	HER2	HER2Low <i>HybridArray</i> ™ Control				
Array Science Catalog Number	BC-8-1-3-1-B (Blocks) BC-8-1-3-1-S (Slides)					
Uses	This control spans 0-3+ expression levels with emphasis on the HER2Low range. The array slides may be helpful for initial assay optimization, validation, and daily QC for monitoring assay consistency.					
Composition		Cell type	HER2	FISH		
	1	Lymphoma	0	2.4/2.0=1.2		
	2	Tissue*	1-3+ (variable)			
	3	Colon CA	0-1+	2.1/1.6=1.3		
	4	Breast CA	0-1+	2.6/2.4=1.1		
	5	Breast CA	1+	3.9/3.5=1.1		
	6	Breast CA	1-2+	3.9/3.1=1.3		
	7	Breast CA	1-2+	2.5/1.9=1.3		
	8	Breast CA	3+	20/3.5=5.7		
Core Diameter	1mm					
Core Depth	3mm					
Estimated Yield	Up to 450 sections at 3-4um					
Baking	Slides should be thoroughly dried and baked at 60-65*C for 1-2 hours prior to staining.					
Cells Per Core	Approximately 2,000 cells are presented in each core on an H&E-stained histologic section.					
Storage Conditions	Ambient					
Stability	Use blocks within 24 months of the date of manufacture. Slides should be stained within 2 weeks of sectioning.					
Indication	Research Use					
Country of Origin	Unite	United States				



Note: Under certain assay conditions, some HER2 antibody clones may show cytoplasmic background staining¹⁻². This is particularly seen with 4B5 (as in core 3). Cytoplasmic background staining can also be seen in clinical samples, especially gastric carcinoma.

- 1. Systems, V. M. PATHWAY anti-HER-2/neu (4B5) Rabbit Monoclonal Primary Antibody Interpretation Guide for Breast Cancer. (2022).
- Ricardo, S. A. V., Milanezi, F., Carvalho, S. T., Leitão, D. R. A. & Schmitt, F. C. L. HER2 evaluation using the novel rabbit monoclonal antibody SP3 and CISH in tissue microarrays of invasive breast carcinomas. J. Clin. Pathol. 60, 1001–1005 (2007).

^{*}Deidentified breast carcinoma specimens obtained from U.S. archival sources with IRB approval.