ARRAYSCIENCE

Technical Data Sheet

Breast HER2Low
HybridArray™ Control

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

Description	HER2Low *HybridArray™* 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.

	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

(Composition)

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	United States

HER2Low
HybridArray™

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

Note: Under certain assay conditions, some HER2 antibody clones may show cytoplasmic background staining[1-2]. 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).
2. 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).