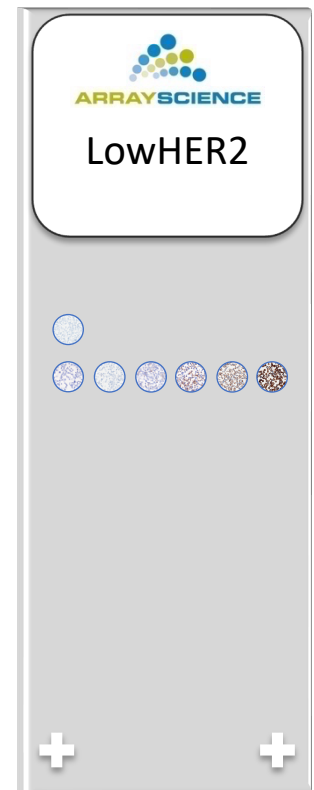


	<b>Technical Data Sheet</b>	
<b>Breast LowHER2 Control</b>	Catalog #	BC-7-1-3-2
	CMA/Lot #	1440
	Intended Use	Research Use Only

Description	Breast LowHER2 Control Block			
Array Science Catalog Number	BC-7-1-3-2-B			
Uses	HER2 Breast Marker 7- Core Array Block This control spans 0-3+ expression levels with special emphasis on the Low-HER2 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	Colon CA	0-1+	2.1/1.6=1.3
	3	Breast CA	0-1+	2.6/2.4=1.1
	4	Breast CA	1+	3.9/3.5=1.1
	5	Breast CA	1-2+	3.9/3.1=1.3
	6	Breast CA	1-2+	2.5/1.9=1.3
	7	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	United States			



Note: Under certain assay conditions, some HER2 antibody clones may show cytoplasmic background staining<sup>1-3</sup>. 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. Blok, E. J., Kuppen, P. J. K., van Leeuwen, J. E. M. & Sier, C. F. M. Cytoplasmic overexpression of HER2: A key factor in colorectal cancer. *Clin. Med. Insights Oncol.* 7, 41–51 (2012).
3. 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).