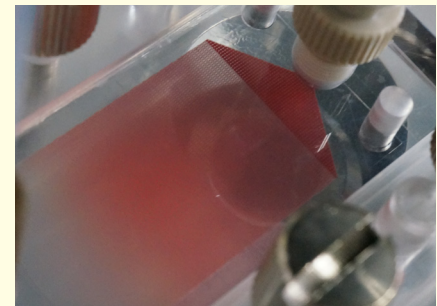
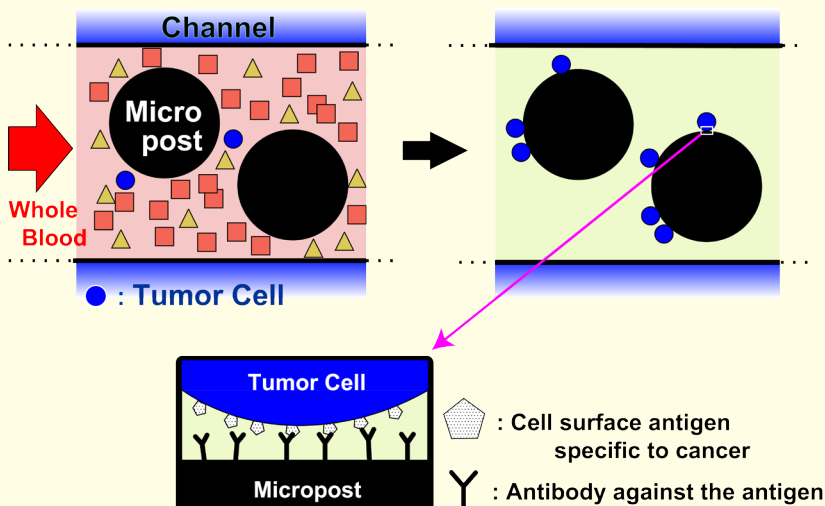
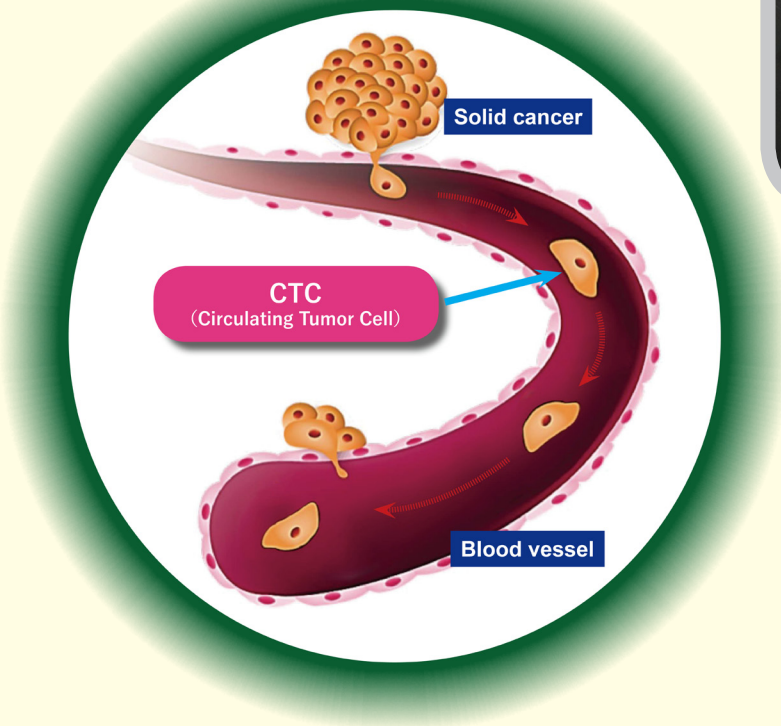
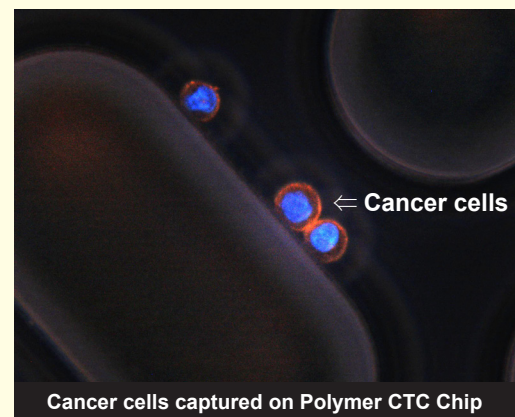
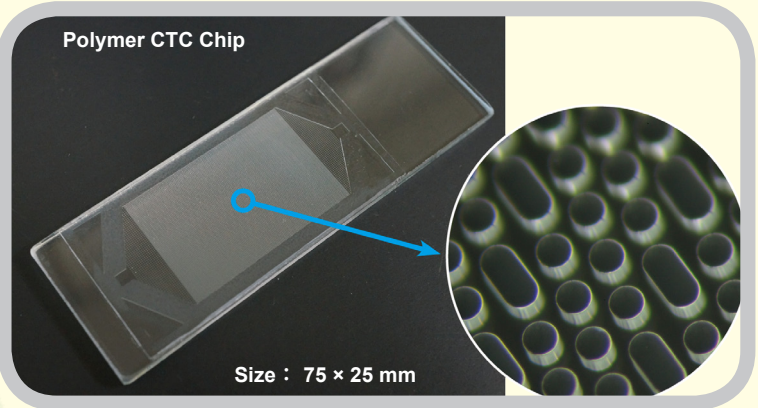


Polymer CTC Chip

Polymer CTC chips capture CTCs from various cancers based on microfluidic technologies combined with immunochemistries.



■ The polymer CTC chip was developed to selectively capture cancer cells by combining a microfluidic device with an antigen-antibody reaction. The chip is equipped with many fine posts, whose surfaces are coated with antibodies that bind to antigens specific to the cancer cells. This allows only cancer cells to be selectively captured on the surface from the sample flowing through the chip.

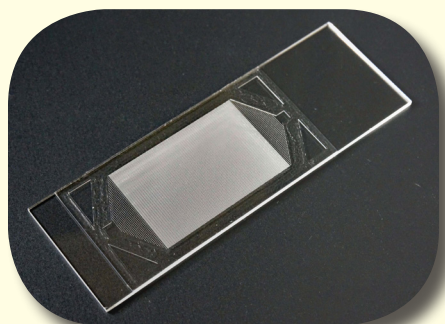
■ Features of Polymer CTC Chip

- Transparent, durable: You can handle the chip like a glass slide.
- Surface reactivity: You can easily coat the chip with your antibody of choice whenever needed.
- High cancer cell capture performance.
- High productivity and low cost: Applicable to promote CTC researches and clinical applications.

Cancer cell capture performance of Polymer CTC Chip

Cancer cell line	Capture target	*Capture efficiency	Medium	Reference
Colon				
HCT116	EpCAM	91%	PBS	Kure, K. et al. Oncol Lett. 19, 2286-2294 (2020)
		65%	Whole blood	↑
		80%	Whole blood	Ishibashi, R. et al. Oncol Lett. 18, 6397-6404 (2019)
Prostate				
PC3	EpCAM	95%	PBS	Obayashi, K. et al. Prostate International 7, 131-138 (2019)
		84%	Whole blood	↑
LNCaP	EpCAM	83%	PBS	↑
		76%	Whole blood	↑
Breast				
MCF 7	EpCAM	92%	PBS	Shimada, Y. et al. Mol Clin Oncol. 4, 599-602 (2016)
		92%	Whole blood	↑
SKBR3	EpCAM	85%	PBS	↑
	HER2	90%	PBS	Toyama idustrial technology center annual report (2018)
MDA-MB-231	EGFR	73%	PBS	Ohnaga, T. et al. Sci Rep. 8, 12005 (2018)
Lung				
PC-9	EpCAM	100%	PBS	Chikaishi, Y. et al. Oncol Rep. 37, 77-82 (2017)
		88%	Whole blood	↑
A549	cell surface vimentin	88%	PBS	Kanayama, M. et al. Oncol Rep. 52, 156-161 (2024)
Esophagus				
KYSE220	EpCAM	92%	PBS	Shimada, Y. et al. Mol Clin Oncol. 4, 599-602 (2016)
		73%	Whole blood	↑
KYSE150	EpCAM	91%	PBS	↑
KYSE510	EpCAM	95%	PBS	↑
Pancreas				
MIA PaCa-2	EGFR	90%	PBS	Toyama idustrial technology center annual report (2019)
BxPC-3	EGFR	77%	PBS	↑
Mesothelioma				
ACC-MESO-4	podoplanin	78%	PBS	Chikaishi, Y. et al. Oncol Rep. 37, 77-82 (2017)
		100%	PBS	Yoneda, K. et al. Cancer Sci. 110, 726-733 (2019)
		84%	Whole blood	↑
H226	podoplanin	76%	Whole blood	↑
ACC-MESO-1	EGFR, podoplanin	100%	PBS	Kanayama, M. et al. Oncol Lett. 22, 522-530 (2021)

*Capture efficiency: (Number of cancer cells captured by the device) / (Number of cancer cells flowing into the device) x 100%



■ Product Name: **Polymer CTC Chip**

【Specifications】

Dimensions: 75 x 25 x 1 mm

Weight: Approx. 5 g

Pack size: 25 pcs



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