

■ Anti human EpCAM monoclonal antibody ■

● EpCAM

EpCAM (CD326) is a transmembrane glycoprotein involving cell adhesion, cell growth and tumor progression. Its overexpression is a popular trait of almost all epithelial cancer so that EpCAM is considered as a marker for diagnostics and prevention against epithelial cancer.

To date, it has been found that the number of circulating tumor cells (CTC) from solid tumor (epithelial origin) in blood correlate with prognosis of spread breast cancer, prostatic cancer and colon cancer. Therefore EpCAM is used for CTC measurement in blood as it express on CTC.

● Features

The extracellular part of EpCAM which is transmembrane glycoprotein consist of 3 parts, an N-terminal EGF domain, a TY-like domain, and an uncharacterized cysteine-poor (CP) region. Most commercially available monoclonal antibodies to EpCAM bind to the small EGF domain. However, this monoclonal antibody (clone: KIJY2) to EpCAM binds to the CP region and is generated by Masashi Takao, Institute of Development, Aging and Cancer, Tohoku University. (Reference 1,2)

· Clone: **KIJY2** (recognize CP domain)

Other antibodies to EpCAM, EGF domain

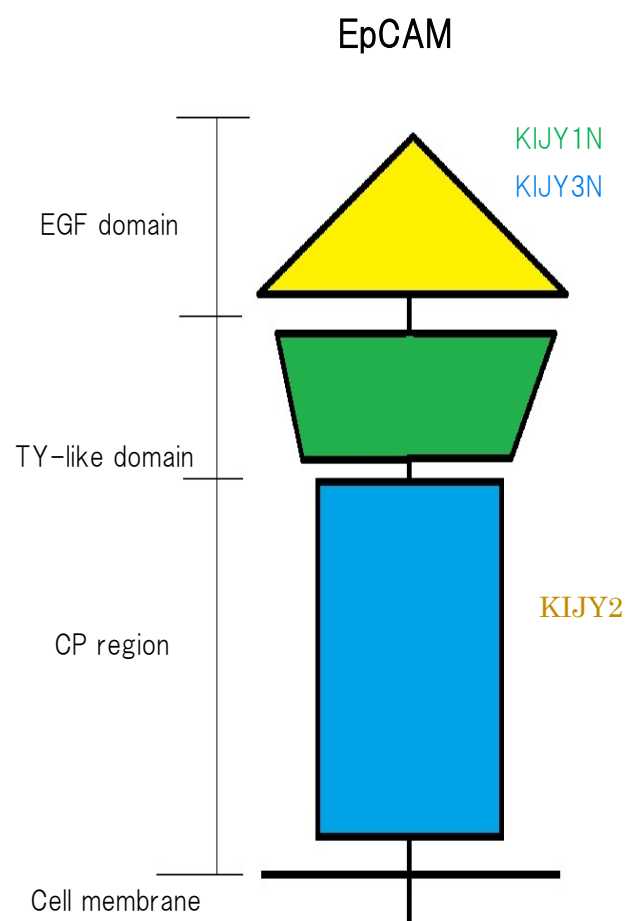
· Clone: **KIJY1N** (recognize EGF domain)

· Clone: **KIJY3N** (recognize EGF domain)

References

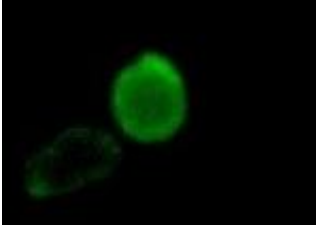
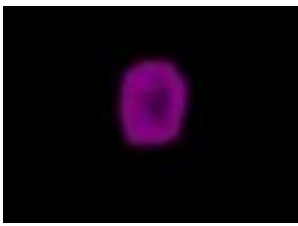
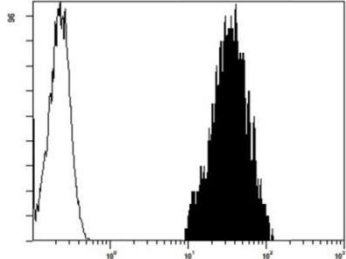
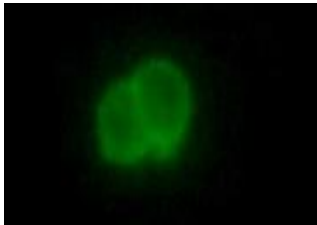

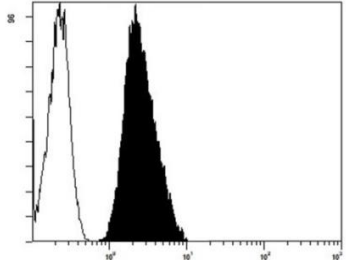
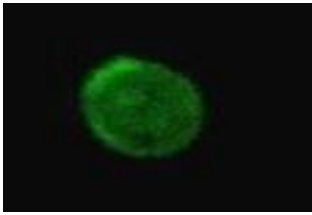
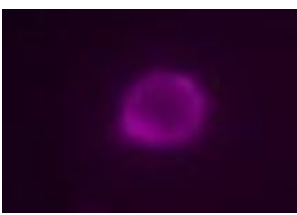
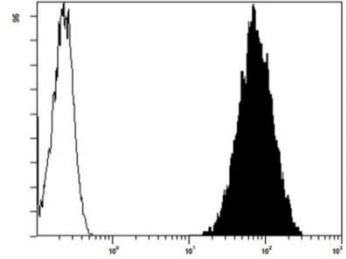
1: MONOCLONAL ANTIBODIES IN IMMUNODIAGNOSIS AND IMMUNOTHERAPY Volume 32, Number 2, 2013
Masashi Takao, Yutaka Nagai, and Tokiji Torii

2: JP2014-105159A



◆ NIPPON BIO-TEST LABORATORIES INC. manufactures monoclonal antibodies to AFP, CEA, albumin, hemoglobin, myoglobin, haptoglobin, polyubiquitin and GM3 and polyclonal antibodies to CRP and β 2m. Furthermore, we develop other monoclonal antibodies to other antigens*. If you have any requests, please contact us.

※ β 2m, CRP, HBs antigen, Insulin, Troponin I, Troponin T, Transferin, Human-IgG, Human-IgM, hCG, Vimentin, CD142, etc..

Number	Product name	Isotype	Buffer	Quantity
0923-1	Anti-human EpCAM monoclonal antibody KIJY1N	IgG1	Phosphate Buffer	200 μ g
		Host: Mouse Antigen: EpCAM expressing cells Reactivity: Human Application: ELISA, Immunofluorescence, Flow cytometry		
	IF(MCF7 cells were stained with KIJY1N-FITC, or KIJY1N-Hilyte Fluor 647)		FCM	
				
0923-2	Anti-human EpCAM monoclonal antibody KIJY2	IgM	Citrate Buffer	200 μ g
		Host: Mouse Antigen: EpCAM expressing cells Reactivity: Human Application: ELISA, Immunofluorescence, Flow cytometry		
	IF (MCF7 cells were stained with KIJY2-FITC, or KIJY2-Hilyte Fluor 647)		FCM	
				
0923-3	Anti-human EpCAM monoclonal antibody KIJY3N	IgG2a	Phosphate Buffer	200 μ g
		Host: Mouse Antigen: EpCAM expressing cells Reactivity: Human Application: ELISA, Immunofluorescence, Flow cytometry		
	IF (MCF7 cells were stained with KIJY3N-FITC, or KIJY3N-Hilyte Fluor 647)		FCM	
				



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