



- ✓ Improved photostability
- ✓ Superior brightness
- ✓ More Fluorophore choices

Caprico Biotechnologies' Flow Cytometry Products

**NEW FLUOROPHORES FOR YOUR EXPERIMENTS:
iFLUOR® and mFLUOR®**

Caprico anti-CD3 iFluor700 conjugate (T cell marker) compared to AlexaFluor700

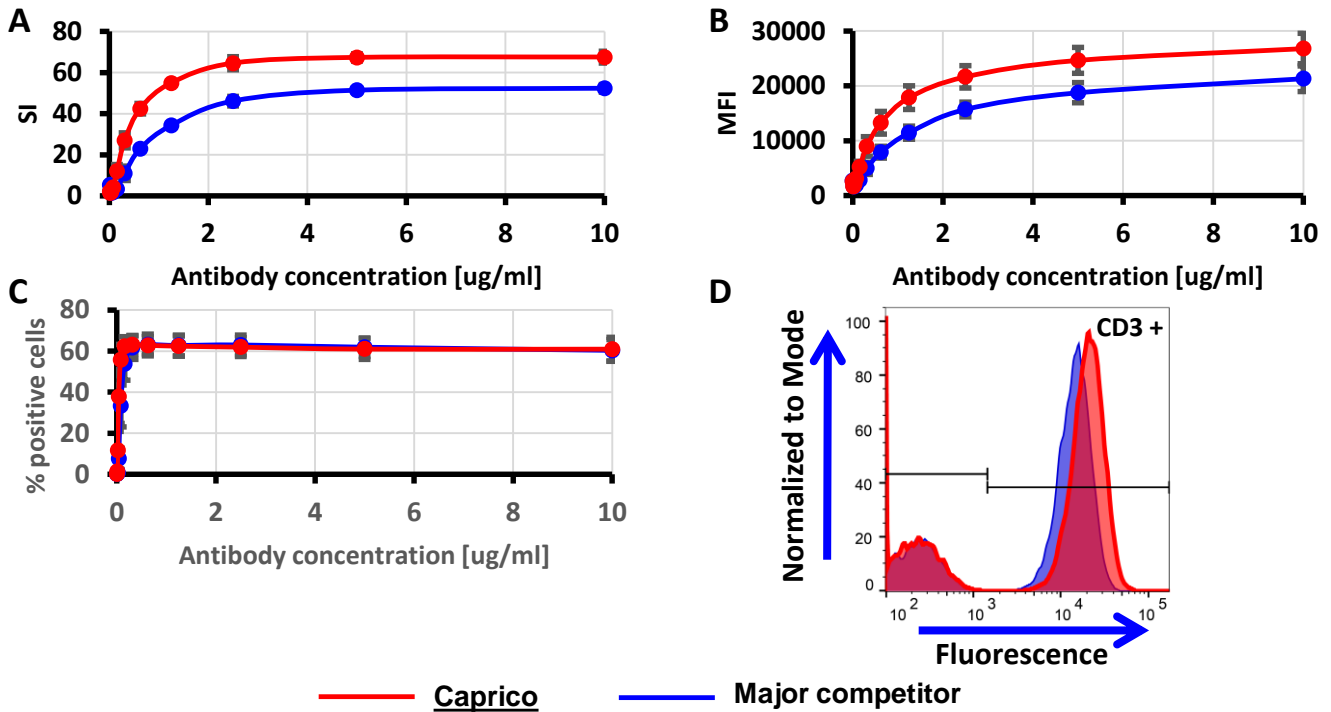


Fig.1: Human PBMCs were stained with serial dilutions of Caprico anti-CD3 iFluor700 conjugate (clone UCHT1, cat#1053194) in comparison to a commercially available AF700 conjugate, all values are shown for the Lymphocyte population. Caprico's iFluor700 conjugate shows superior staining index (SI, A) and brightness (MFI, B) than AF700 conjugated antibody through the whole concentration range tested, while percentage of CD3 positive Lymphocytes is identical. Histogram overlay of Lymphocyte population at recommended concentration (5µg/ml) demonstrates improved separation using the iFluor700 conjugate. (n=3)

iFluor™ Dyes

The iFluor™ fluorophores are optimized for strong fluorescence, high photostability and pH independence on proteins, and are available to span the full UV-visible-IR spectrum. iFluor™ 488 has spectral properties essentially identical to Alexa Fluor® 488. iFluor™ 488 conjugates are prepared using a highly purified single rhodamine isomer which significantly improves their lot to lot consistency. iFluor™ 647 dyes are spectrally similar to Alexa Fluor® 647 and DyLight™ 650 dyes.

iFluor/mFluor is a trademark of AAT Bioquest.

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Pan-leukocyte marker CD45 Caprico's mFluor540 conjugate compared to PacificOrange

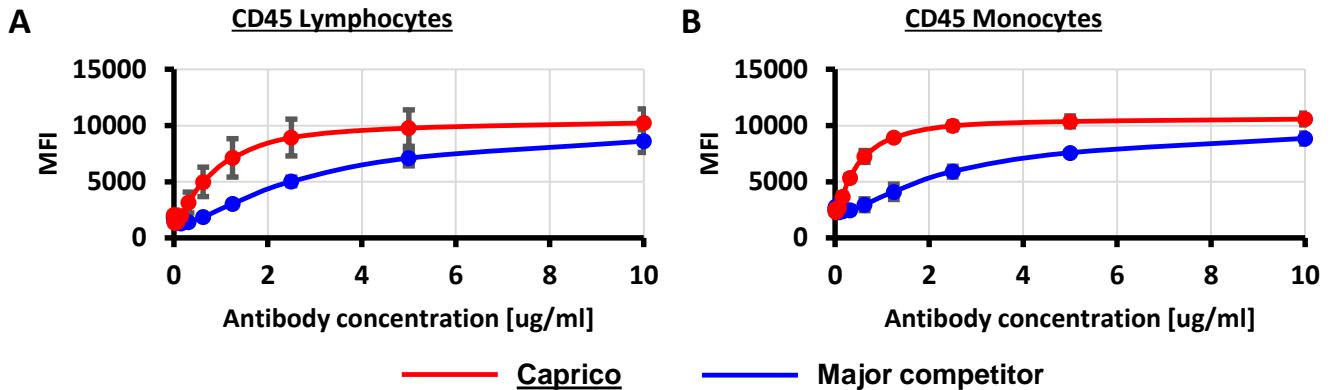


Fig.2: Human PBMCs were stained with serial dilutions of Caprico anti-CD45 mFluor540 conjugate (clone F10-89-4 , cat#1016164) in comparison to a commercially available PacificOrange conjugate. Caprico's mFluor540 conjugated product shows superior brightness (MFI) in comparison to the PacificOrange conjugated antibody on both Lymphocytes (A) and Monocytes (B) population through the whole concentration range tested. (n=3)

mFluor™ Dyes

mFluor™ fluorescent labeling dyes are developed specifically for flow cytometry applications, to enable optimal multi-color detection. These dyes show large Stokes shifts and excellent water solubility. mFluor™ dyes span the full UV-visible spectrum and are designed to be maximally excited by one of the major light sources in flow cytometers such as the violet laser at 405 nm or blue laser at 488 nm. They are excellent alternatives to the phycoprotein-based tandems that are quite difficult to couple to an antibody or other biomolecules.

Laser	Caprico Biotechnologies Fluorochromes	Ex	Em	Filter	Classical Fluorochromes with equivalent spectra
Violet(405nm)	mFluor 450	403	454	450/45	V450, Pacific Blue
	mFluor 540	405	537	525/40	V500, Krome Orange
Blue(488nm)	iFluor488	491	518	530/30	Alexa Fluor 488, Dylight 488
	PE-iFluor594	496,565	614	610/20	PE-Texas Red (ECD), PE-CF594
Red(633nm)	iFluor647	649	664	660/20	Alexa Fluor 647
	APC-iFluor700	645	710	720/45	APC-R700, APC-Alexa 700, APCA700
	iFluor700	685	710	720/45	Alexa Fluor 700
	mFluor700	657	700	720/45	APC-Alexa 700, APCA700, APC-R700
	APC-iFluor750	650	775	780/60	APC-H7, APC-Alexa 750, APCA750
	mFluor780	629	780	780/60	APC-H7, APC-Alexa 750, APCA750