

SYSTEMS AND KITS

IOtest Beta Mark TCR V β Repertoire Kit

The IOtest Beta Mark Kit is a multi parametric analysis tool designed for quantitative determination of the TCR V β repertoire of human T lymphocytes by flow cytometry. Taking advantage of the fact that V β specificities may be grouped into mutually exclusive combinations, the detection of 3 V β expressions in the same tube is possible with the use of an innovative staining strategy combining three monoclonal antibodies (mAb) with only two fluorophores. A first mAb is FITC-conjugated, a second one is PE-conjugated and a third one is a carefully balanced mixture of a PE- and a FITC-conjugated form. This kit simplifies the TCR V β repertoire analysis by reducing the number of tubes to analyze (8 instead of 24) and consequently the time required for obtaining the results. Moreover, this kit makes it possible to study the repertoire on T cell subsets, using additional T-cell markers, such as CD3, CD4, and CD8, conjugated to a third fluorophore. The kit is composed of 8 vials containing mixtures of conjugated TCR V β antibodies corresponding to 24 different specificities (about 70% coverage of normal human TCR V β repertoire). The test is intended for use on whole blood samples. The staining protocol includes a one-step procedure with directly conjugated antibody mixes (test volume of 20 μ L) and a wash step after staining. A third color T-cell marker (preferentially as PC5-conjugate; not included) is used to gate the specific population. The kit can be used in a multi parametric environment employing at least three-color flow cytometric analysis. The test is compatible with different methods of red blood cell lysis and can be run on Beckman Coulter as well as BD Biosciences cytometers. The IOtest Beta Mark kit includes a control for PMT setting and fluorescence compensation adjustments. Since the reagent in vial A is used as to prepare this control, the kit contains 50 tests of reagent A instead of 25.

IOtest β Mark TCR V β Repertoire Kit				Size	Status	Part #
				25 tests	RUO	IM3497
Vial A	V β 5.3	PE	3D11 (IgG1 Mouse)			
	V β 7.1	PE+FITC	ZOE (IgG2a Mouse)			
	V β 3	FITC	CH92 (IgM Mouse)			
Vial B	V β 9	PE	FIN9 (IgG2a Mouse)			
	V β 17	PE+FITC	E17.5F3.15.13 (IgG1 Mouse)			
	V β 16	FITC	TAMAYA1.2 (IgG1 Mouse)			
Vial C	V β 18	PE	BA62.6 (IgG1 Mouse)			
	V β 5.1	PE+FITC	IMMU 157 (IgG2a Mouse)			
	V β 20	FITC	ELL1.4 (IgG2a Mouse)			
Vial D	V β 13.1	PE	IMMU 222 (IgG2b Mouse)			
	V β 13.6	PE+FITC	JU74.3 (IgG1 Mouse)			
	V β 8	FITC	56C5.2 (IgG2a Mouse)			
Vial E	V β 5.2	PE	36213 (IgG1 Mouse)			
	V β 2	PE+FITC	MPB2D5 (IgG1 Mouse)			
	V β 12	FITC	VER2.32.1 (IgG2a Mouse)			
Vial F	V β 23	PE	AF23 (IgG1 Mouse)			
	V β 1	PE+FITC	BL37.2 (IgG1 Rat)			
	V β 21.3	FITC	IG125 (IgG2a Mouse)			
Vial G	V β 11	PE	C21 (IgG2a Mouse)			
	V β 22	PE+FITC	IMMU 546 (IgG1 Mouse)			
	V β 14	FITC	CAS1.1.3 (IgG1 Mouse)			
Vial H	V β 13.2	PE	H132 (IgG1 Mouse)			
	V β 4	PE+FITC	WJF24 (IgM Rat)			
	V β 7.2	FITC	ZIZOU4 (IgG2a Mouse)			