

BD Biosciences antibodies in EuroFlow multicolor panels

The EuroFlow™ Consortium is a scientifically independent network who has successfully completed a 5-year European funded project (EU FPS project LSHB-CT-2006-018708) aiming at the development, standardization and validation of fast, accurate, and highly sensitive flow cytometric tests for diagnosis and prognostic (sub)classification of hematological malignancies as well as for evaluation of treatment effectiveness during follow-up. Key objectives of the EuroFlow consortium were the development of novel antibodies, 8-color immunostaining protocols and novel flow cytometry software (Infinicyt™ software) for fast and easy interpretation of complex data and for automated pattern recognition.**

BD Biosciences and EuroFlow are continuously collaborating to expand the choice of single color reagents with new tested alternatives showing comparable staining pattern to the corresponding EuroFlow reference reagents.

EuroFlow reference markers**, now available as standard catalog reagents

Marker	Fluorochrome	Clone	BD Part No.	Size	Application in EuroFlow Panels**
CD9	APC-H7	M-L13	655409*	100 tests	AML/MDS
CD10	APC-H7	HI10A	655404*	100 tests	AML/MDS
CD11c	PerCP-Cy5.5	B-ly6	658330*	50 tests	B-CLPD
CD22	PerCP-Cy5.5	S-HCL-1	658329*	50 tests	B-CLPD
CD24	APC-H7	ML5	658331*	100 tests	BCP-ALL
CD27	PerCP-Cy5.5	L128	656643*	50 tests	B-CLPD, PCD
CD38	APC-H7	HB7	656646*	100 tests	LST, SST, BCP-ALL, AML/MDS, B-CLPD
CD43	APC-H7	IG10	655407*	100 tests	B-CLPD
CD49d	APC-H7	9F10	658332*	100 tests	B-CLPD
CD71	APC-H7	M-A712	655408*	100 tests	AML/MDS
CD79b	PerCP-Cy5.5	SN8	656644*	50 tests	B-CLPD
CD81	APC-H7	JS-81	656647*	100 tests	BCP-ALL, PCD, B-CLPD
Igλ	APC-H7	1-155-2	656648*	100 tests	PCST, BCP-ALL
IREM-2 (CD300e)	APC	UP-H2	656158*	100 tests	AML/MDS
TCRγδ	PE-Cy™7	11F2	655410*	100 tests	LST, B-CLPD
β-2 microglobulin	PerCP-Cy5.5	Tü99	656645*	50 tests	PCST

Alternative specificities to the EuroFlow reference reagents

The following BD markers have been tested as single antibodies against the reference EuroFlow reagents** and may be used as alternative markers to the ones selected by the EuroFlow Consortium.

BD Biosciences					
Marker	Fluorochrome	Clone	BD Part No.	Size	Application in EuroFlow Panels**
CD2	V450	S5.2	644485*	100 tests	NK-CLPD
CD3	V450	UCHT1	560365	120 tests	ALOT, T-ALL
CD4	V450	SK3	651849*	100 tests	LST, B-CLPD, T-CLPD
CD7	APC	M-T701	653311*	100 tests	ALOT, T-ALL, AML
CD8	FITC	SK1	345772 ^c	100 tests	LST, SST, B-CLPD
CD9	V450	M-L13	658167*	100 tests	BCP-ALL
CD10	PE	MEM-78	658366*	50 tests	B-CLPD
CD16	V450	3G8	644489*	100 tests	NK-CLPD
CD16	FITC	CLB/FcGran1	656146*	50 tests	AML/MDS
CD20	V450	L27	655872 ^c	100 tests	LST, SST, BCP-ALL, B-CLPD
CD21	V450	B-ly4	658169*	100 tests	BCP-ALL
CD23	FITC	EBVCS-5	656148*	50 tests	B-CLPD
CD36	FITC	CLB-IVC7	656151*	50 tests	AML/MDS
CD38	FITC	HB7	340909 ^c	50 tests	PCST, PCD
CD41a	FITC	HIP8	333147 ^c	50 tests	AML/MDS
CD42a	FITC	Beb1	348083 ^c	100 tests	AML/MDS
CD45	V450	2D1	642275*	100 tests	PCST, PCD
EF CD45	V500-C	2D1	custom***	50 tests	LST, SST, ALOT, B-CLPD, T-CLPD, NK-CLPD, BCP-ALL, T-ALL, AML/MDS
CD56	PE	MY31	345810 ^c	100 tests	LST, SST, B-CLPD, PCST, AML/MDS
CD64	PE	10.1	644385*	50 tests	AML/MDS
CD105	PE	266	560839	100 tests	AML/MDS
CD123	APC	9F5	658171*	100 tests	BCP-ALL, T-ALL, AML
CD138	V500-C	MI-15	650659*	100 tests	PCST, PCD
CD200	APC	OX-104	655406*	100 tests	B-CLPD
Igλ	FITC	1-155-2	347247 ^c	50 tests	LST, SST
Igκ	PE	TB28-2	347246 ^c	50 tests	LST, SST
Igκ	V450	TB28-2	658286*	100 tests	BCP-ALL
HLA-DR	V450	L243	655874 ^c	100 tests	AML/MDS, NK-CLPD

Reference antibodies selected by EuroFlow		
Company	Fluorochrome	Clone
BioLegend	Pacific Blue	TS1/8
BD Biosciences	Pacific Blue	UCHT-1
BD Biosciences	Pacific Blue	RPA-T4
eBioscience	APC	124-1D1
Cytognos	FITC	UCH-T4
ExBio	Pacific Blue	MEM-61
Beckman Coulter	PE	ALB1
BD Biosciences	Pacific Blue	3G8
Sanquin	FITC	CLB/FCGran1
BioLegend	Pacific Blue	2H7
ExBio	Pacific Blue	LT21
Dako	FITC	NHM6
Sanquin	FITC	CLB-IVC7
Cytognos	FITC	LD38
Sanquin	FITC	CLB-tromb/7,6C9
Serotec	FITC	GRP-P
Dako	Pacific Blue	T29/33
Invitrogen	Pacific Orange	HI30
Cytognos	PE	C5.9
Serotec	PE	10.1
Beckman Coulter	PE	1G2
Miltenyi Biotech	APC	AC145
ExBio	Pacific Orange	B-A38
eBioscience	APC	OX-104
Cytognos	FITC	polyclonal
Cytognos	PE	polyclonal
custom	Pacific Blue	TB28-2
BioLegend	Pacific Blue	L243

BD Biosciences and EuroFlow are currently evaluating additional single color alternative specificities. The above lists of antibodies will be adjusted accordingly.

*** For ordering this reagent please contact your local Sales Representative

** For more information, please refer to: the issue 26 of Leukemia (2012) and in particular to:

J.J.M. van Dongen, L. Lhermitte, S. Böttcher, J. Almeida, V.H.J. van der Velden, J. Flores-Montero, A. Rawstron, V.Asnafi, Q. LÉcresse, P. Lucio, E. Mejstrikova, T. Szczepanski, T. Kalina, R. de Tute, M. Brüggemann, L. Sedek, M. Cullen, A.W. Langerak, A. Mendonça, E. Macintyre, M. Martin-Ayuso, O. Hrusak, M.B. Vidrales, and A. Orfao on behalf of the EuroFlow Consortium (EU-FP6, LSHB-CT-2006-018708); 'EuroFlow antibody panels for standardized n-dimensional flow cytometric immunophenotyping of normal, reactive and malignant leukocytes'; Leukemia 2012, 26 (9): 1908-75;

* RUO (GMP) : for Research Use Only (Good Manufacturing Practices). Not for use in diagnostic or therapeutic procedures

^c CE-IVD : CE marked in compliance with the European Directive 98/79/EC. (Directive of the European parliament and of the Council of 27 October 1998 on in vitro diagnostic medical devices)

Clinical-research application of these single reagents in full 8-color tubes requires further testing of large series of samples.



www.euroflow.org

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