

Table 13. Essential Characteristics of Anti-Human IgM Monoclonal Antibodies

BMR Cat No.	Clone No.	Mouse Ig Isotype	Reactivity in CELIXSYS* method (%)		Ag-ELISA method (A490nm)**											
			Human IgM		Human IgM		Cross-reactivity to other immunoglobulins.									
			Ab Conc. 0.1µg/mL	Ab Conc. 0.01µg/mL	Ab Conc. 0.1µg/mL	Ab Conc. 0.01µg/mL	Human IgG1	Human IgG2	Human IgG3	Human IgG4	Human IgA	Mouse IgM	Bovine IgM	Rabbit IgM	Goat IgM	Sheep IgM
			Ab Conc. = 1µg/mL													
BMRim014	HIM3-277	IgG2a	98	62	3.863	2.618	0.050	0.047	0.076	0.068	0.048	0.045	0.044	0.049	0.045	0.044
BMRim013	HIM3-195	IgG2b	97	58	3.638	2.790	0.046	0.046	0.078	0.066	0.050	0.042	0.045	0.043	0.045	0.044
BMRim015	HIM3-774	IgG2b	97	56	3.642	2.883	0.047	0.050	0.086	0.073	0.054	0.045	0.046	0.048	0.045	0.047
BMRim009	HIM1-2017	IgG2a	98	45	3.640	2.909	0.048	0.046	0.090	0.076	0.047	0.044	0.043	0.044	0.043	0.044
BMRim007	HIM1-1637	IgG2a	98	45	3.648	2.949	0.051	0.051	0.092	0.088	0.046	0.043	0.043	0.043	0.042	0.043
BMRim016	HIM3-1837	IgG2b	97	44	3.880	2.695	0.052	0.046	0.088	0.071	0.059	0.046	0.049	0.048	0.054	0.049
BMRim002	HIM1-230	IgG2a	96	31	3.897	3.078	0.047	0.044	0.094	0.077	0.047	0.044	0.044	0.042	0.043	0.043
BMRim006	HIM1-1315	IgG2b	90	21	3.855	3.137	0.053	0.049	0.089	0.076	0.048	0.052	0.045	0.043	0.045	0.045
BMRim020	HIM4-1105	IgG2b	89	23	3.870	2.829	0.050	0.052	0.072	0.070	0.046	0.043	0.043	0.045	0.047	0.043
BMRim019	HIM4-935	IgG2a	85	21	3.655	2.715	0.044	0.045	0.087	0.067	0.045	0.043	0.042	0.043	0.043	0.042
BMRim003	HIM1-372	IgG2a	88	21	3.622	2.843	0.061	0.053	0.128	0.094	0.048	0.045	0.042	0.044	0.044	0.045
BMRim011	HIM1-2425	IgG2a	74	13	3.579	2.007	0.051	0.051	0.068	0.064	0.045	0.044	0.044	0.043	0.043	0.043
BMRim004	HIM1-859	IgG2a	66	10	3.761	1.933	0.060	0.055	0.070	0.077	0.050	0.045	0.047	0.046	0.045	0.045
BMRim005	HIM1-1124	IgG1	67	11	3.468	1.378	0.048	0.043	0.062	0.058	0.047	0.043	0.042	0.042	0.043	0.047
BMRim010	HIM1-2018	IgG1	62	9	3.691	1.567	0.050	0.044	0.065	0.060	0.050	0.043	0.044	0.045	0.047	0.046
Control	Polyclonal Antibody (10µg/mL)		N/A	N/A	3.923	3.769	3.536	3.700	3.644	3.667	3.886	0.069	1.338	0.450	1.520	1.862
Blank			N/A	N/A	0.043	0.041	0.041	0.041	0.041	0.043	0.044	0.043	0.044	0.042	0.040	0.042

* CELIXSYS is an unique immuno-precipitation equivalent antibody screening and analysis method developed by BMR.

** In order to avoid a non-specific reaction of secondary antibody, each monoclonal antibody was labeled with biotin, and its reactivity to various immunoglobulins was assessed using Strept-avidin-HRP and OPD substrate system.