

CD38 (OKT10)

Analyte Specific Reagent (ASR)*

Type	Number of tests	Volume per test (μL)	Total volume (μL)	Catalog number
FITC	50	5	250	4008012
	100	5	500	4008015
PE	50	5	250	4008022
	100	5	500	4008025
APC	50	5	250	4008042
	100	5	500	4008045
PerCP	50	5	250	4008032
	100	5	500	4008035
PerCP-Cyanine5.5	50	5	250	4008062
	100	5	500	4008065
PE-Cyanine5	50	5	250	4008072
	100	5	500	4008075
APC-Cyanine7	50	5	250	4008092
	100	5	500	4008095
PE-CF594	50	5	250	4008202
	100	5	500	4008205
mFluor™450	50	5	250	4008142
	100	5	500	4008145
iFluor™488	50	5	250	4008112
	100	5	500	4008115
APC-iFluor™700	50	5	250	4008172
	100	5	500	4008175

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Antigen: CD38
Immunogen: Human acute lymphoblastic leukemia
Host/Isotype: Mouse, IgG1,κ
Reactivity: Human, Rhesus, Cynomolgus, Baboon
Purity: >90% pure tested via polyacrylamide gel electrophoresis (PAGE)
Formulation: PBS, pH7.2, 0.09% NaN₃ and 0.2% (w/v) BSA
Storage: Store at 2-8°C and protected from prolonged exposure to light. **Do not freeze.**
Applications: Flow Cytometry.

Antigen Information

The clone OKT10, a mouse monoclonal antibody, recognizes a 45 kDa, type II transmembrane cell surface glycoprotein known as CD38. The CD38 antigen is expressed on pre-B lymphocytes, plasma cells, thymocytes and monocytes. CD38 also presents on activated T lymphocytes, natural killer (NK) lymphocytes, myeloblasts, and erythroblasts. Antigen expression is detected during the early stage of T- and B-lymphocyte differentiation, then lost during the intermediate stage of maturation, only to reappear during the final stage of maturation. The CD38 antigen is expressed on 90% of CD34+ cells and is not expressed on pluripotent stem cells. CD38 is expressed in T-

and B-acute lymphoblastic leukemia (ALL), Burkitt's lymphoma, multiple myeloma, acute myeloid leukemia (AML), and chronic lymphocytic leukemia (CLL).

References

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4. Lohmeyer J, et al. 1988. *Br J Haematol.* 69: 335.
5. Small TN, et al. 1989. *Hum Immunol.* 25:181.
6. Zupo S, et al. 1994. *Eur J Immunol.* 24:1218.
7. Yoshino N, et al. 2000. *Exp Anim.* 49(2), 97–110.
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*Analyte Specific Reagent. The analytical and performance characteristics of this ASR product are not established.