



Antibodies

1F-674-T100

Monoclonal Antibody to Kappa light chains Fluorescein (FITC) conjugated (100 tests)

Clone:	TB28-2
Isotype:	Mouse IgG1
Specificity:	The antibody TB28-2 recognizes human Ig kappa light chains of both secreted and cell surface immunoglobulin. It detects also free kappa light chains.
Regulatory Status:	RUO
Immunogen:	Human IgG-kappa myeloma protein
Species Reactivity:	Human
Preparation:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	Immunoglobulin classes share the same basic four polypeptide chain structure of two heavy chains (five heavy chains types) and two light chains (kappa, lambda; both having a molecular weight of 22.5kDa). Kappa and lambda consist of a variable region and a constant region and can easily be differentiated by the antigenic properties of the constant region. The ratio of kappa to lambda is 70:30.
References:	*Kiyotaki M, Cooper MD, Bertoli LF, Kearney JF, Kubagawa H: Monoclonal anti-Ig antibodies react with varying proportions of human B lineage cells. <i>J Immunol.</i> 1987 Jun 15;138(12):4150-8. *Nakamura T, Kubagawa H, Cooper MD: Heterogeneity of immunoglobulin-associated molecules on human B cells identified by monoclonal antibodies. <i>Proc Natl Acad Sci U S A.</i> 1992 Sep 15;89(18):8522-6. *Böttcher S, Ritgen M, Buske S, Gesk S, Klapper W, Hoster E, Hiddemann W, Unterhalt M, Dreyling M, Siebert R, Kneba M, Pott C; EU MCL MRD Group: Minimal residual disease detection in mantle cell lymphoma: methods and significance of four-color flow cytometry compared to consensus IGH-polymerase chain reaction at initial staging and for follow-up examinations. <i>Haematologica.</i> 2008 Apr;93(4):551-9. *Karandikar NJ, Aquino DB, McKenna RW, Kroft SH: Transient myeloproliferative disorder and acute myeloid leukemia in Down syndrome. An immunophenotypic analysis. <i>Am J Clin Pathol.</i> 2001 Aug;116(2):204-10. *Jourdan M, Caraux A, De Vos J, Fiol G, Larroque M, Cognot C, Bret C, Duperray C, Hose D, Klein B: An in vitro model of differentiation of memory B cells into plasmablasts and plasma cells including detailed phenotypic and molecular characterization. <i>Blood.</i> 2009 Dec 10;114(25):5173-81.

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