

T CELL CLONALITY COCKTAIL (ZR414 + ZM504)

Rabbit & Mouse Monoclonal Antibody

Host: Rabbit & Mouse
Specificity: Human
Immunogen: Synthesized human CD3 protein; Synthetic peptide corresponding to TCR β constant region 1 protein
Ig Class: IgG + IgG1/k
Storage: Store at 2-8 °C for up to 2 years for the concentrate form and 18 months for the prediluted form.

Specifications: T CELL CLONALITY COCKTAIL (CD3 ZR414 + TRBC1 ZM504) Rabbit & Mouse monoclonal primary antibody detects TRBC&CD3 Protein in formalin-fixed, paraffin-embedded samples by immunohistochemical (IHC) staining.

Staining procedures: Use formalin-fixed and paraffin-embedded sections. Retrieval conditions: Pretreatment of deparaffinized samples via heat-induced epitope retrieval is recommended. Detection method: Polymer anti-mouse/rabbit Ig detection system. Working dilution: Ready-to-use. Positive Control: sample known to contain TRBC&CD3 Protein.

Localization: Cytoplasmic.

Intended Use: Research Use Only (RUO). This antibody is not for diagnostic use.

Description: ZM45 antibody reacts with the intracytoplasmic portion of the CD3 antigen expressed by T cells. It stains human T cells in both the cortex and medulla of the thymus and in peripheral lymphoid tissues. This antibody is suitable for staining normal and neoplastic T cells in formalin-fixed, paraffin-embedded tissues. TRBC1 refers to T-Cell Receptor Beta Constant 1. It encodes the constant region of the TCR β chain, which, together with variable and joining regions, forms the complete TCR that interacts with antigens. TRBC1 expression and variations can be studied in the context of T-cell malignancies or immune system disorders. Malignant lymphomas and leukemias often show restricted expression of TRBC1 or TRBC2, rather than normal mixed, therefore, combination of CD3 and TRBC1 antibodies can be used to determine T cell clonality by paraffin immunohistochemistry. The staining CD3/TRBC1 patterns: normal lymphoid tissue: mixed CD3 (brown) and TRBC1 (red), ration 2:1; monoclonal T cell population: mixed CD3 (brown) and TRBC1 (red), ration 1:1, or only brown with no red staining.

Supplied As: Purified antibody in Tris-HCl pH 7.4 buffer containing stabilizing proteins (including < 1% Bovine Serum Albumin) and < 0.1% ProClin by volume.

References:

1. Beverley PC, et al. Eur J Immunol. 1981; 11:329-34. 2.
2. Campana D, et al. J Immunol. 1987; 138:648-55. Dogan A, et al. Am J Surg Pathol. 2003; 27:903-11.
3. Liu J, et al: Am J Surg Pathol. 2023;47(11):1325-1331.
4. Horna P et al: J Invest Dermatol. 2021;141:821-829

REF Z2854MRP-R (7ml Pre-dil)



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