Caprico Biotechnologies

TECHNICAL DATA SHEET

ZAP-70 (C-D12)

Type	Size	Catalog number
Unconjugated	100µg	120301
	500µg	120303
FITC	25 tests	120314
	100 tests	120315
	200 tests	120316
PE	25 tests	120324
	100 tests	120325
	200 tests	120326

Antigen: ZAP-70
Immunogen: Recombinant fragment of human ZAP70 protein (around aa 247-382)
Host/Isotype: Mouse, IgG1, k
Reactivity: Human
Purity: >90% pure tested via polyacrylamide gel electrophoresis (PAGE)
Formulation: PBS, pH7.2, 0.09%NaN_3 (unconjugated)
PBS, pH7.2, 0.09% NaN_3 and 0.2% (w/v) BSA (conjugated)
Storage: Store at 2-8°C and protected from prolonged exposure to light. **Do not freeze.**
Applications: Flow Cytometry

Application Information

Each lot of these antibodies has been pre-titrated and tested by flow cytometric analysis using PMA stimulated human PBMCs such that 0.5µg (unconjugated, Biotin) or 5µl (conjugated) of these products are sufficient for staining 1 million cells in a 100µl staining volume or 100µl of whole blood. It is recommended to titrate antibody reactivity empirically for optimal performance.

Antigen Information

The clone C-D12, a mouse monoclonal antibody selectively binds with the 70kd tyrosine phosphoprotein known as ZAP-70 which is usually associated with the ζ-chain CD3-receptor-associated protein tyrosine kinase (PTK). It is a member of the Syk family that is localized exclusively to the cytosol of T cells and natural killer (NK) cells and is required for their cellular activation. It is generally considered the T-lymphocyte counterpart of Syk, a B-cell receptor (BCR)-associated kinase that belongs to the same PTK family and plays a similar role in the antigen receptor signaling in the B-lineage cells. It facilitates the upregulation of Fas ligand in activation-induced T cell apoptosis. ZAP-70 expression plays an important role in the clinical diagnosis of various types of hematologic malignancies.

References

1. *Chan, AC, et al. 1992. Cell. 71:649-662.*
2. *Law, CL, et al. 1994. J. Biol. Chem. 269:12310-12319.*
3. *Chen, L, et al. 2002. Blood. 100:4609-4614*
4. *Crespo M, et al. 2003. N. Engl. J. Med. 348:1764-1775.*

Terms and Conditions

This product is for research use only (RUO) and not intended for diagnostic testing.

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