Caprico Biotechnologies

TECHNICAL DATA SHEET

Anti-human lambda light chain (HP6054)

Type	Size	Catalog number
Unconjugated	100µg	106601
	500µg	106603
FITC	25 tests	106614
	100 tests	106615
	200 tests	106616
PE	25 tests	106624
	100 tests	106625
	200 tests	106626
Biotin	100µg	106651

Antigen: Lambda Light Chain
Immunogen: Purified human IgG myeloma proteins covalently coupled to polyaminostyrene (PAS) microbeads.
Host/Isotype: Mouse, IgG2a, κ
Reactivity: Human
Purity: >90% pure tested via polyacrylamide gel electrophoresis (PAGE)
Formulation: PBS, pH7.2, 0.09%NaN_3 (unconjugated, Biotin)
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, IHC, IP

Application Information

Each lot of these antibodies has been pre-titrated and tested by flow cytometric analysis of 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

Clone HP6054 specifically binds with both soluble and membrane bound human lambda light chain of immunoglobulin but not binds with the kappa light chain or heavy chain. Lambda light chains are primarily expressed on the surface of B cells in lymphoid tissues. Each B cell expresses only one class of light chain kappa or lambda. In serum of a healthy individual, the total kappa to lambda ratio is approximately 3:1 while measuring as intact whole antibodies or 1:1.5 while measuring as free light chains. Various clinical research data claim that any highly divergent ratio of kappa to lambda indicative of neoplasm. HP6054 is useful in the identification of leukemias, plasmacytomas, and certain non-Hodgkin's lymphomas.

References

1. Reimer CB et al., Hybridoma. **3**:263-275 (1984).
2. Katzmann JA et al., Clin Chem. 48:1437-1444 (2001).

Terms and Conditions

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

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