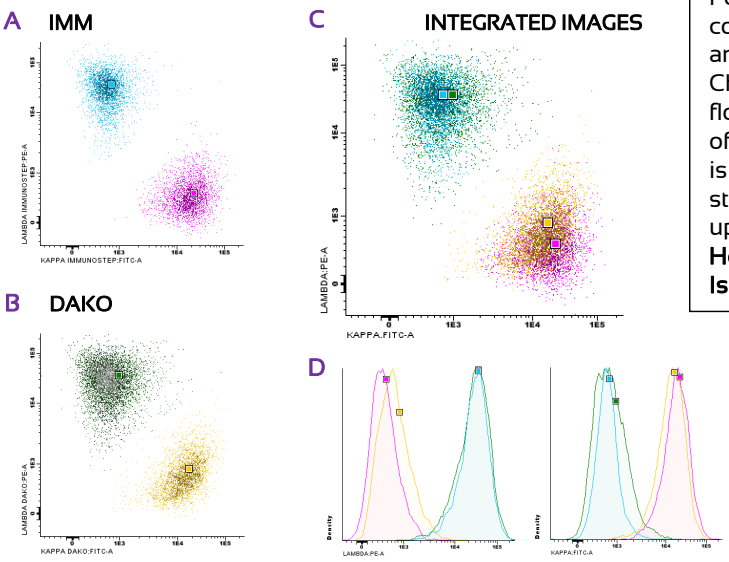
COMPARATIVE ANALYSIS OF IMMUNOSTEP KAPPA/LAMBDA ANTIBODIES PAIR vs DAKO

Fig.1: IMAGE ANALYSIS



Description: Immunostep antibodies pair are F(ab')2 Polyclonal Rabbit Anti-Human Kappa Light Chains conjugated with fluorescein isothiocyanate isomer 1 (FITC) and F(ab')2 Polyclonal Rabbit Anti-Human Lambda Light Chains, conjugated with R-phycoerythrin (R-PE), for use in flow cytometry for simultaneous detection and enumeration of kappa light chains and lambda light chains. The conjugate is provided in aqueous buffered solution containing protein stabilizer, and ≤0.09% sodium Azide. 25 µL of conjugate for up to 10^6 leucocytes from normal human peripheral blood.
Host: Rabbit / **Reactivity:** Human
Isotypes: Rabbit F(ab')2 IgG

Fig .1: Immunostep antibodies pair discriminate kappa and lambda population better than DAKO.
Peripheral blood sample K/L analysis,
A; K/L analysis using Immunostep antibodies pair.
B; K/L analysis using reference antibodies pair.
C; A and B images integrated to compare.
D; Histograms of lambda antibodies and kappa antibodies fluorescence peaks.

Fig. 2: MEAN FLUORESCENCE ANALYSIS

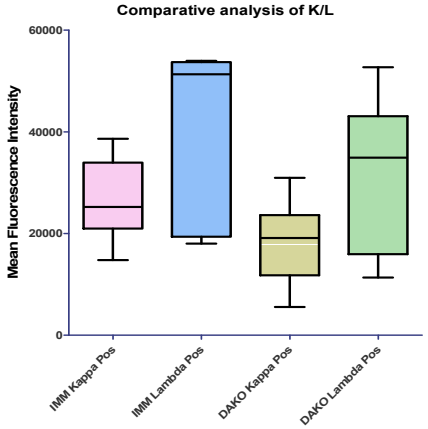


Fig. 2.: Box and Whiskers graph. We used 8 PB samples in kappa analysis and 6 PB samples in Lambda analysis. Immunostep antibodies pair present a MFI better than reference antibodies pair. The distribution of MFI is better in Immunostep pair.

Statistics	IMM Kappa Pos	DAKO Kappa Pos	IMM Lambda Pos	DAKO Lambda Pos
Number of values	8	8	6	6
Minimum	14777	5565	18003	11344
25% Percentile	20948	11791	19345	15929
Median	25228	19104	51306	34924
75% Percentile	33941	23619	53697	43071
Maximum	38644	30958	53962	52717
Mean	26560	18365	41330	31871
Std. Deviation	8094	7938	17476	15140
Std. Error	2862	2807	7135	6181
Lower 95% CI of mean	19793	11728	22990	15982
Upper 95% CI of mean	33327	25001	59670	47759

Table 1: Statistics of MFI data.

Fig. 3: STAIN INDEX ANALYSIS

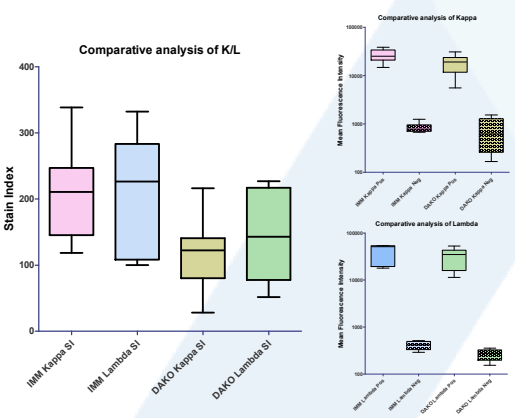


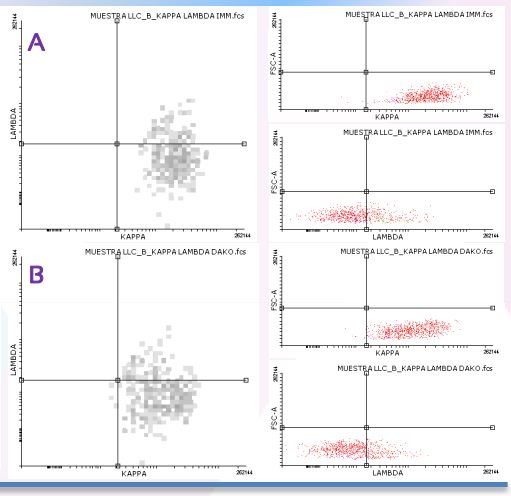
Fig. 3: Stain Index analysis.
The SI is calculated as follow:

$$\text{Stain Index} = \frac{[MFI_1 - MFI_2]}{2 \times SD}$$

MFI_2 (negative population)
MFI_1 (positive population)
SD= Standard Deviation

Fig. 4: Pathological sample analysis.
Example of analysis in a kappa positive B-CLL sample (PB) comparing both pairs of antibodies. Immunostep pair (A) detect the kappa positive population better than DAKO(B).

Fig. 4: PATHOLOGICAL SAMPLE ANALYSIS



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