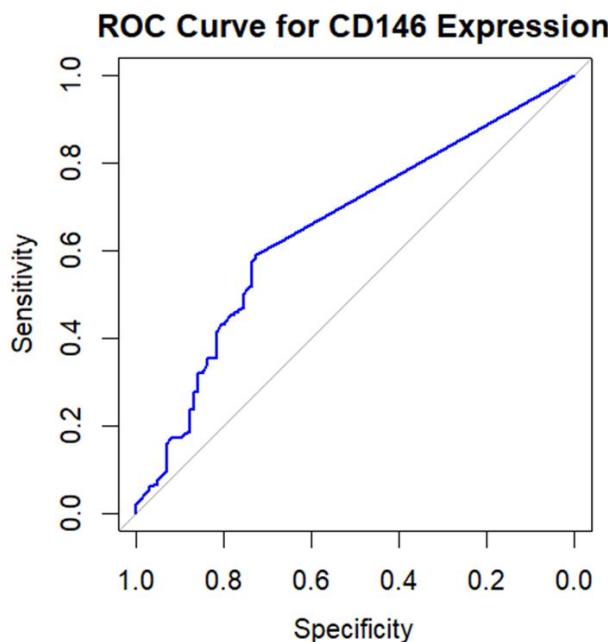


**Original Article****CD146 Molecule Expression in B Cells Acute Lymphoblastic Leukemia (B-ALLs): A Flow-Cytometric Marker for an Accurate Diagnostic Workup****Supplementary Figures and Tables**

**Supplementary Figure 1.** Receiver Operating Characteristic (ROC) curve for CD146 expression aimed at discriminating between ALL-Ph+ and ALL-Ph-Neg. ROC curve identified 10% as the optimal cut-off to consider CD146 expression “positive”, which maximizes the separation between the BCR::ABL1-positive ALLs and BCR::ABL1-negative ALLs. It would be necessary to recalculate the sensitivity, specificity, and predictive values. The 10% cut-off point on the ROC curve has a Sensitivity of 59%, Specificity of 72%, with Positive Predictive Value of 76% and Negative Predictive Value of 55%.

**Supplementary Table 1.** Comparison of positivity rate of the markers analyzed between Ph+ B-ALL (n=144) and B-ALLs negatives (n= 79).

Antigens	Ph + B-ALLs (n=144)	B-ALLs negative (n=79)	p-value
<b>CD146 n (%)</b>			
Negative	70 (49%)	57 (72%)	< 0.001
Positive	74 (51%)	22 (28%)	
<b>CD10 n (%)</b>			
Negative	11 (8%)	22 (28%)	< 0.001
Positive	133 (92%)	57 (72%)	
<b>CD13 n (%)</b>			
Negative	70 (49%)	63 (80%)	< 0.001
Positive	74 (51%)	16 (20%)	
<b>CD33 n (%)</b>			
Negative	72 (50%)	57 (72%)	0.002
Positive	72 (50%)	22 (28%)	
<b>CD66c n (%)</b>			
Negative	70 (49%)	51 (65%)	0.025
Positive	74 (51%)	28 (35%)	
<b>CD38 n (%)</b>			
Negative	50 (35%)	16 (20%)	0.024
Positive	94 (65%)	63 (80%)	

**Supplementary Table 2.** Comparison of positivity rate of the markers analyzed between B-ALLs negatives (n= 79) and Ph-like B-ALLs (n=19).

Antigens	B-ALLs negative (n=79)	Ph-like B-ALLs (n=19)	p-value
<b>CD146 n (%)</b>			
Negative	57 (72%)	16 (84%)	0.39
Positive	22 (28%)	3 (16%)	
<b>CD10 n (%)</b>			
Negative	22 (28%)	0 (0%)	0.006
Positive	57 (72%)	19 (100%)	
<b>CD13 n (%)</b>			
Negative	63 (80%)	16 (84%)	> 0.9
Positive	16 (20%)	3 (16%)	
<b>CD33 n (%)</b>			
Negative	57 (72%)	7 (37%)	0.004
Positive	22 (28%)	12 (63%)	
<b>CD66c n (%)</b>			
Negative	51 (65%)	14 (74%)	0.4
Positive	28 (35%)	5 (26%)	
<b>CD38 n (%)</b>			
Negative	16 (20%)	9 (47%)	0.021
Positive	63 (80%)	10 (53%)	

**Supplementary Table 3.** Comparison of positivity rate of the markers analyzed between Ph+ B-ALL (n=144) and Ph-like B-ALLs (n=19).

Antigens	Ph + B-ALLs (n=144)	Ph-like B-ALLs (n=19)	p-value
<b>CD146 n (%)</b>			
Negative	70 (49%)	16 (84%)	0.003
Positive	74 (51%)	3 (16%)	
<b>CD10 n (%)</b>			
Negative	11 (8%)	0 (0%)	0.4
Positive	133 (92%)	19 (100%)	
<b>CD13 n (%)</b>			
Negative	70 (49%)	16 (84%)	0.004
Positive	74 (51%)	3 (16%)	
<b>CD33 n (%)</b>			
Negative	72 (50%)	7 (37%)	0.3
Positive	72 (50%)	12 (63%)	
<b>CD66c n (%)</b>			
Negative	70 (49%)	14 (74%)	0.043
Positive	74 (51%)	5 (26%)	
<b>CD38 n (%)</b>			
Negative	50 (35%)	9 (47%)	0.3
Positive	94 (65%)	10 (53%)	

**Supplementary Table 4.** Comparison of expression of the markers analyzed between all the 3 groups: Ph+ B-ALL (n=144), Ph-like ALLs (n= 19) and B-ALLs negatives (n= 79). For this statistical analysis based on 3 groups the Kruskal-Wallis test was used.

Antigens	Ph + B-ALLs (n=144) mean ± SD (range)	Ph-like B-ALLs (n=19) mean ± SD (range)	B-ALLs negative (n=79) mean ± SD (range)	p-value
<b>CD146 (%)</b>	29±34 (0-97)	11±28 (0-88)	15±29 (0-90)	< 0.001
<b>CD146 (MFI)</b>	89±136 (1-548)	48±144 (2-620)	32±80 (0-550)	< 0.001
<b>CD10 (%)</b>	62±25 (1-97)	75±20 (26-90)	48±33 (0-96)	< 0.001
<b>CD13 (%)</b>	32±33 (0-90)	8±14 (0-42)	16±29 (0-94)	< 0.001
<b>CD33 (%)</b>	30±32 (0-97)	38±36 (0-90)	18±31 (0-90)	< 0.001
<b>CD66c (%)</b>	29±29 (0-92)	22±30 (0-90)	21±29 (0-90)	0.011
<b>CD38 (%)</b>	46±36 (0-97)	39±41 (0-90)	56±32 (0-96)	0.095
<b>CD34 (%)</b>	63±24 (1-97)	70±28 (0-90)	53±32 (0-96)	0.013