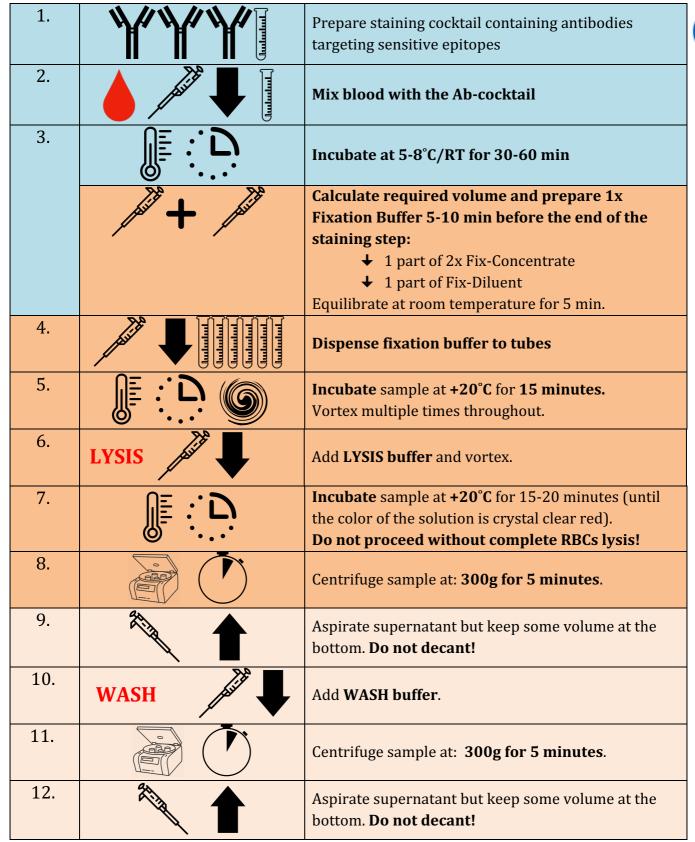
Whole blood processing kit **Graphical protocol**

Staining of fixation sensitive epitopes





13.	() #10, #11 & #12	If the pellets contain remaining RBCs (pinkish-red), repeat washing procedure (WASH buffer/centrifugation/supernatant aspiration).			
14.	14.a.	14.b.			
?		**	≤ -80 °C		
	Proceed to staining of remaining epitopes/ICS.	Store samples in CRYO#20 and freeze at ≤ -80°C.			
15.		•	⇒ J 37°C		
		Thaw cryogenically preserved sample using 37 °C water bath (≈ 1 min)			
16.		16.a.	16.b.		
		Mass cytometry	Flow cytometry		
		Wash once or twice	Acquire sample without washing or stain directly in		
		with staining buffer	CRYO#20 (17.b.).		
17.		17.a.	17.b.		
		Follow your standard mass cytometry staining protocol	Adjust volume by short spin 400g/2-3 min and aspirate supernatant. Leave 50-100 µl Proceed to staining of remaining epitopes/ICS.		
18.		ACQUIRE			

Examples of recommended processing conditions								
Blood	Fix	LYSIS	WASH	Recommended pr	CRYO#20			
sample	buffer	buffer	buffer	First wash	All consequent	volume		
volume	volume	volume	volume		washes			
100 μl	1.0 ml	4.0 ml	4.0 ml	10 - 15 ml	5-15 ml	100 μl		
250 μl	2.5 ml	10 ml	10 ml	15 ml	15 ml	100 μl		
500 μl	5.0 ml	20.0 ml	20.0 ml †	50 ml *	15 ml	250 μl		
1.0 ml	10.0 ml	39.0 ml	40.0 ml †	50 ml *	15 ml	500 μl		

^{*} To achieve optimal cell yields execute only first spin after Fix&Lyse step in 50 ml tube, aspirate to mark 5 ml or above (not below 5 ml mark), transfer to 15 ml tube and continue with altered WASH buffer volumes.

[†] In case you decide to run all consequent processing steps in 15 ml tube, use 14 ml of WASH buffer and adjust number of washing steps based on pellet color. Typically, only one more washing step is required.