

Immunity panel test



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Dear colleague,

Below are the results from the analysis on a patient _____. The sample that was sent to us for analysis was ___ml of whole blood containing EDTA-Ca as anti-coagulant.

Our laboratory processed with the following:

1. Serum isolation from 8ml of whole blood with centrifugation.
2. Specific immunity activation/suppression cytokines were measured by ELISA assay.
3. Flow cytometry run for the requested cell markers directly to whole blood.

The data arising from the two assays were then analyzed and compared to the normal ones.

During the test the environmental temperature was: $23^{\circ}\text{C} \pm 1^{\circ}\text{C}$.

The results are summarized in the following table:

Immunity panel test

Immunity activation/suppression

Hematopoietic cells	Cell type	Markers/cytokines	control	Result		
CD45 positive cells	B cells	Plasma cells	CD19		↑	
		Naïve B cells	CD20		↓	
		Memory cells	CD28		-	
	T cells	CD8 (Cytotoxic T Lymphocytes, CTLs)	CD62L			
		CD4 (T helper cells, T _H)	<i>Th1 (cell mediated immunity)</i>	IFN-γ (interferon gamma)		
			<i>Th2 (humoral immunity)</i>	IL-4 (Interleukin 4)		
				IL-6 (Interleukin 6)		
		IL-2 (Interleukin 2)				
		<i>Th3 (suppressed immunity)</i>	TNF-α (Tumor Necrosis Factor alpha)			
			T regulatory cells (Tregs)	CD25 CTLA4		
	Memory cells	CD28				
	Antigen Presenting Cells (APCs)	Dendritic cells (DCs)	CD80			
CD86						

Results discussion

The ELISA assay results of patient _____ show that there is activation / suppression of immunity. According to the flow cytometry analysis the activation / suppression of immunity is caused due to _____ cell activation.

This Test Report is issued based on testing the sample / specimen examined by the Laboratory.

Modification of data, selective breeding and using portions of this test report is forbidden.

The laboratory assumes no liability for improper use or improper interpretation of the results.