

## Immunity panel test

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Dear colleague,

We enclose the results from the analysis on patient Mr/Ms \_\_\_\_\_. The sample that was sent to us for analysis was a sample of \_\_ml of whole blood that contained EDTA-Ca as anti-coagulant, and was packed with an ice pack.

Our laboratory undertook the following process:

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

The data arising from the two assays was analyzed and compared to controls.

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			-
			<i>Th1 (cell mediated immunity)</i>	IFN-γ (interferon gamma)		↑
		CD4 (T helper cells, T <sub>H</sub> )	<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)		↑
		Memory cells	T regulatory cells (Tregs)	CD25		-
			CTLA4		↑	
	Antigen Presenting Cells (APCs)	Dendritic cells (DCs)	CD28			-
			CD80			↑
		CD86			-	

### **Results discussion**

The ELISA assay results of the above named patient show that there is an activation of immunity. According to the flow cytometry analysis the activation of immunity is not caused by maturation of DCs. There is a population of cells with immunophenotype of Tregs that may cause immunosuppression.

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.