

## **Metastasis panel**

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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. White Blood Cell (WBC) isolation with Biocoll solution.
2. mRNA isolation using TRIzol reagent.
3. cDNA synthesis from mRNA with First strand cDNA synthesis kit.
4. Specific gene markers were quantified with Real Time PCR assay.
5. Flow cytometry run for the specific 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:

## ***Metastasis panel***

### **Metastasis markers**

<u>Metastasis location</u>	<u>Marker</u>	<u>Sample levels</u>	<u>Normal levels</u>	<u>Results</u>
<b>General</b>	TGF-β R2			↑
	ITGB-4 R			↓
	ITGB-5 R			
	ITGB-6 R			
<b>Pleura</b>	CCR6			
	Mesothelin			
<b>Skin</b>	CCR7			
<b>Lung</b>	IGF-R2			
	Phospho-ERK1/2			
<b>Bone</b>	Bone Morphogenetic Protein Receptors			
	CXCR4 and RANK			
	BST-2			
<b>Liver</b>	CXCR4			
	TRAIL-R2			
	FAS R			
	HGFR			
<b>Brain</b>	Phospho-STAT-3			
	CX3CR1			
	DSC-2			

### **Results discussion**

Two methods were used in order for the results to be accurate. Flow cytometry was carried out with the use of the above specific antibodies and Real Time PCR was held using primers designed to recognize specifically the genes of these proteins. Both of the assays confirm that \_\_\_\_\_ levels are **higher / lower** and \_\_\_\_\_ levels are **higher / lower** than normal.

According to the results, there is high risk of \_\_\_\_\_ metastasis of the primary tumor.

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.