

Fibronectin

General: Fibronectin is a high-molecular weight glycoprotein of the extracellular matrix that binds to membrane-spanning receptor proteins called integrins. In addition to integrins, fibronectin also binds extracellular matrix components such as collagen, fibrin and heparan sulfate proteoglycans.

Decreased levels of fibronectin affects the elimination of exotoxins and furthermore it is suspected, that fibronectin plays a role in the pathogenesis of malignant tumors.

High levels can be detected in malignant punctures.

The following tests are available:

- **Fibronectin in plasma**

Indication: consumption coagulopathy, septic syndromes, suspicion of tumor.

Material: 1 ml citrate plasma (frozen)

TAT: 7-10 days*

Method: nephelometry

Units: mg/dl

Ref.- range: 20.0 - 40.0

- **Fibronectin in puncture**

Indication: differentiation between non-malignant and malignant punctures (ascites or pleural)

Material: aspirate

TAT: 7-10 days*

Method: nephelometry

Units: mg/dl

Ref.- range: see report

Fluid	Disorder	Fibronectin
Plasma	shock	decreased
Plasma	sepsis, consumption coagulopathy	decreased
Plasma	traumata, operations	decreased
Plasma	burnings	decreased
Plasma	acute pancreatitis, liver failure	decreased
Plasma	renal insufficiency, hemoperfusion	decreased
Plasma	acute leukemia (during therapy)	decreased
Plasma	mamma, bladder, kidney tumors	increased
Plasma	bronchial carcinomas	increased or decreased
Plasma	chronic active liver diseases	increased
Urine	prostate gland carcinoma	increased
Synovial fluid	rheumatic arthritis	increased
Seminal plasma	vasectomy	increased

For complete list of laboratory test offered at Freiburg Medical Laboratory, please visit
<http://www.fml-dubai.com/parameter-listings/>