

Biology and Disease

Tissue Inhibitor Metalloproteinase 2 (TIMP-2) is an important member of the TIMP protein family, which suppresses tissue remodeling of the extracellular matrix (ECM) contributed by matrix metalloproteinases (MMPs). Since the breakdown of ECM leads to tumor progression, TIMPs have received attention for their tumor suppressing abilities and are thought to be negative regulators of metastasis. Out of the four members in the mammalian TIMP family, TIMP-2 is a distinctive member in that it can also suppress angiogenesis via MMP-independent mechanisms. Together, the TIMPs are important regulators for cell growth, apoptosis and differentiation, and they participate in pathological development of several chronic diseases such as psoriasis, rheumatoid arthritis and cancer.

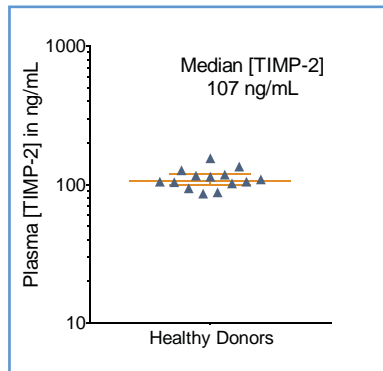
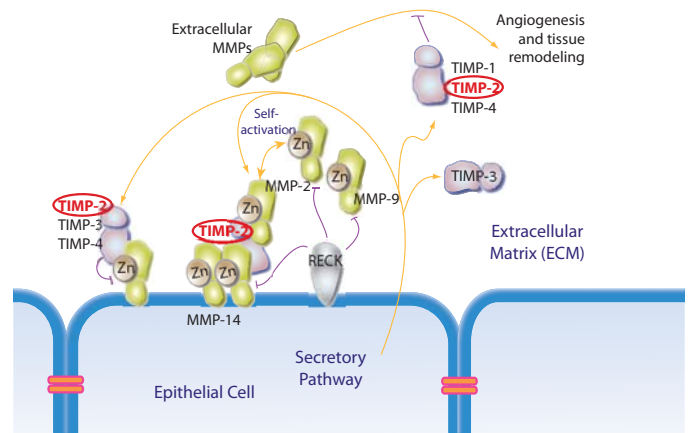


FIGURE 1: [TIMP-2] in EDTA plasma from 14 healthy donors, with median and interquartile range.

The Erenna® TIMP-2 Immunoassay Evaluation Reagent Kit reliably quantifies TIMP-2 in healthy subjects, who have a median [TIMP-2] of 107 ng/mL that is well above the detection limit of 0.01 pg/mL.

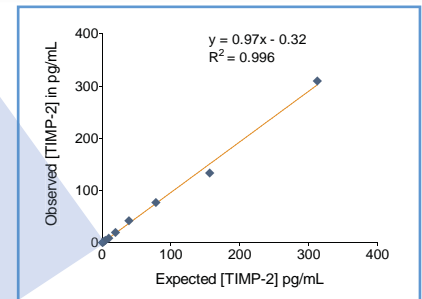
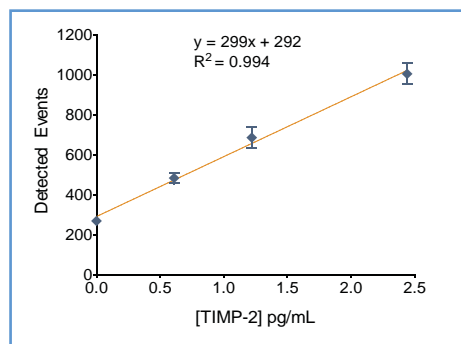


FIGURE 2: Erenna® TIMP-2 Immunoassay Evaluation Reagent Kit low-end standard curve signal (left) and curve fit (above).

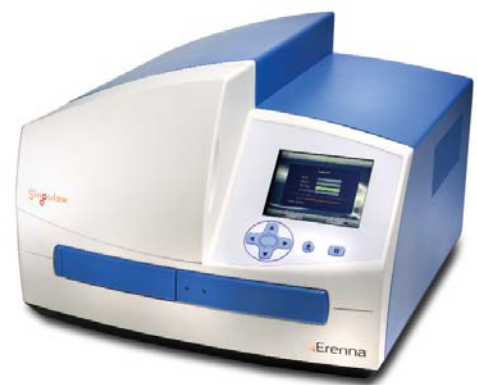
TABLE 1: Analytical sensitivity of the Erenna® TIMP-2 Immunoassay Evaluation Reagent Kit¹

Lower Limit of Detection	0.01 pg/mL
Lower Limit of Quantification ²	0.6 pg/mL
Upper Limit of Quantification	312 pg/mL
Low-end CV% Range	5 - 8%
Low-end CV% Average	6%
Assay Volume	100 µL
Minimum Sample Volume Required ³	0.001 µL

¹ see product insert for updated values

² LLoQ ≤ 20% CV and ± 20% recovery

³ based upon median [TIMP-2] in a healthy reference population



Representative data shown for demonstration purposes only. Individual results may vary depending upon samples tested and protocol used.