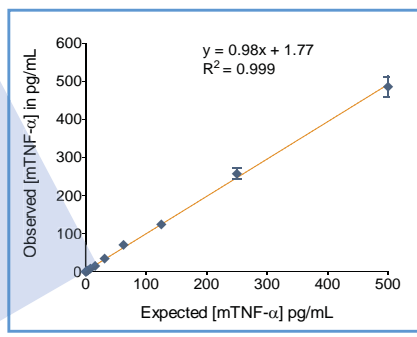
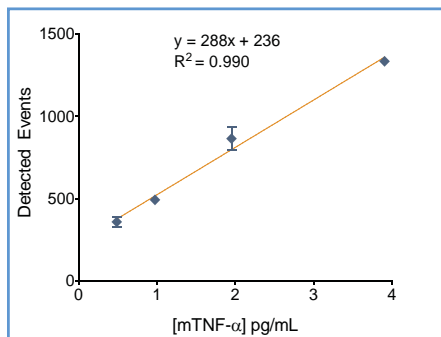
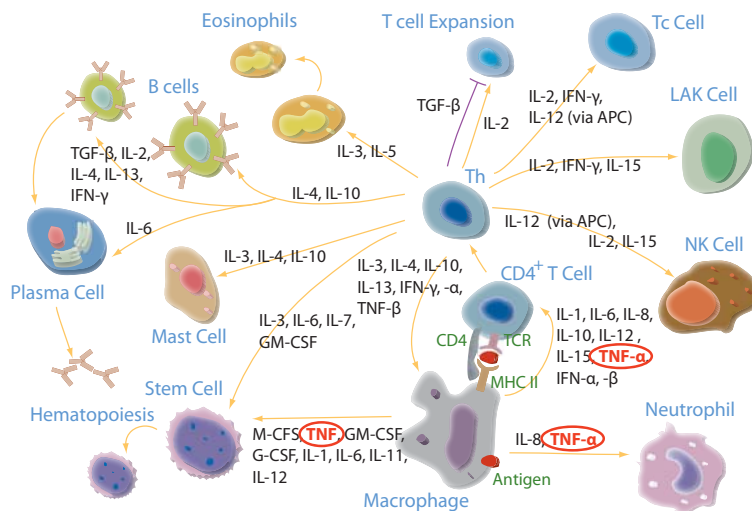


Biology and Disease

Tumor necrosis factor alpha (TNFα) is a pro-inflammatory cytokine with cytotoxic activity that is primarily produced by macrophages. TNFα is involved in systemic inflammation and is a member of the group of cytokines that stimulate the acute phase reaction. When administered to animals or humans it causes inflammation, fever, cardiovascular effects, hemorrhage, coagulation, and acute phase responses similar to those seen during acute infections and shock states. By promoting the inflammatory response, TNFα is associated with many autoimmune disorders such as rheumatoid arthritis, ankylosing spondylitis, Crohn's disease, psoriasis, and refractory asthma. TNFα also plays a role in cancer and regulates apoptotic cell death, cellular proliferation, tumorigenesis, and viral replication.



The Erenna® mouse TNFα Immunoassay Evaluation Reagent Kit has a detection limit of 0.08 pg/mL, providing accurate quantification of mTNFα in only 20 μL of plasma. This assay enables better preclinical study design and long-term monitoring of individual mice over time.

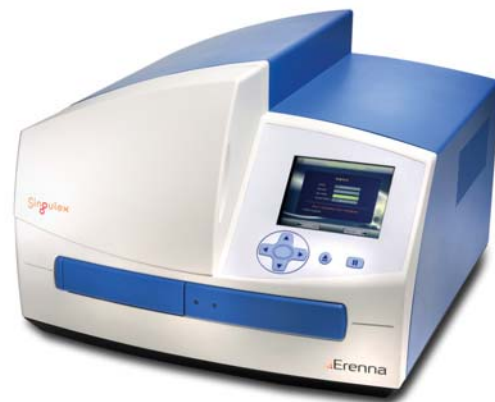
FIGURE 1: Erenna® mouse TNFα Immunoassay Evaluation Reagent Kit low-end standard curve signal (left) and assay curve fit (right).

TABLE 1: Analytical sensitivity of the Erenna® mouse TNFα Immunoassay Evaluation Reagent Kit¹

Lower Limit of Detection	0.08 pg/mL
Lower Limit of Quantification ²	0.49 pg/mL
Upper Limit of Quantification	500 pg/mL
Low-end CV% Range	1 - 8%
Low-end CV% Average	5%
Assay Volume	20 μL

¹ see product insert for updated values

² LLoQ ≤ 20% CV and ± 20% recovery



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