

Soluble Fms-like tyrosine kinase

Overview

Summary

Fms-like tyrosine kinase (Flt-1), also known as Vascular Endothelial Growth Factor Receptor 1 (VEGFR-1), is a membrane receptor for different members of the vascular endothelial growth factor family like VEGF-A, VEGF-B and Placental Growth Factor (PlGF). The soluble form of VEGFR-1, also known as sFlt-1, comprises the 656 N-terminal residues of the receptor, followed by a specific 30 amino acid tail at its C-terminus that is produced in endothelial cells.

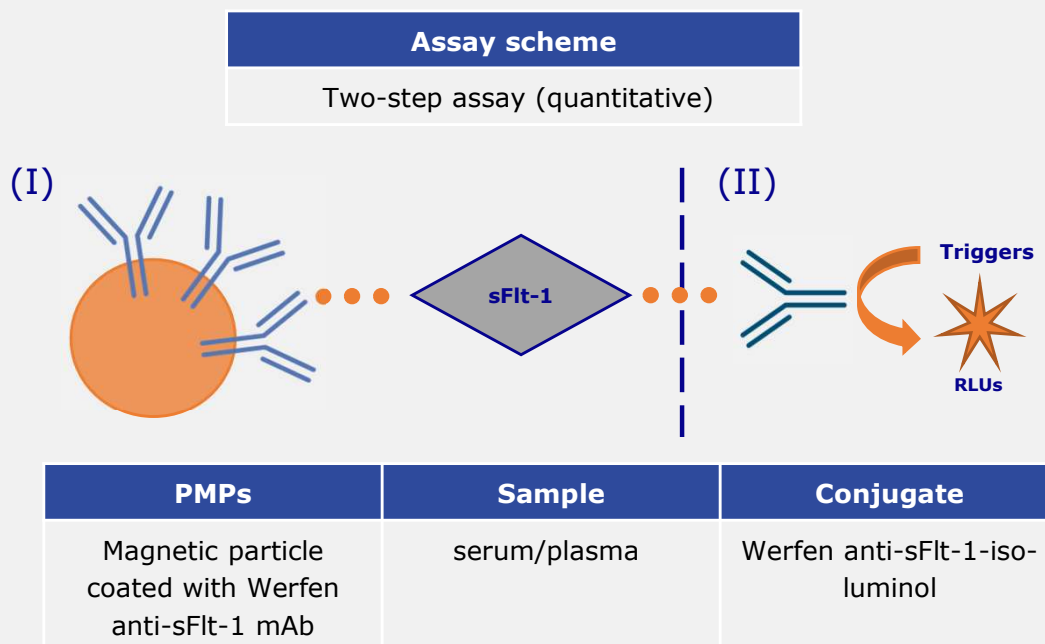
Epidemiology

In clinical laboratory settings, measuring the circulating levels of sFlt-1 is crucial in diagnosing preeclampsia, along with other medical parameters. Preeclampsia is responsible for 10-15% of maternal deaths worldwide, according to the World Health Organization (WHO)¹. Elevated levels of sFlt-1 have been found in hypoxia or impaired perfusion of the placenta. The increased levels of sFlt-1 have a detrimental effect that could have a relation with the clinical and laboratory observations seen in preeclampsia.

sFlt-1 CLIA RUO prototype

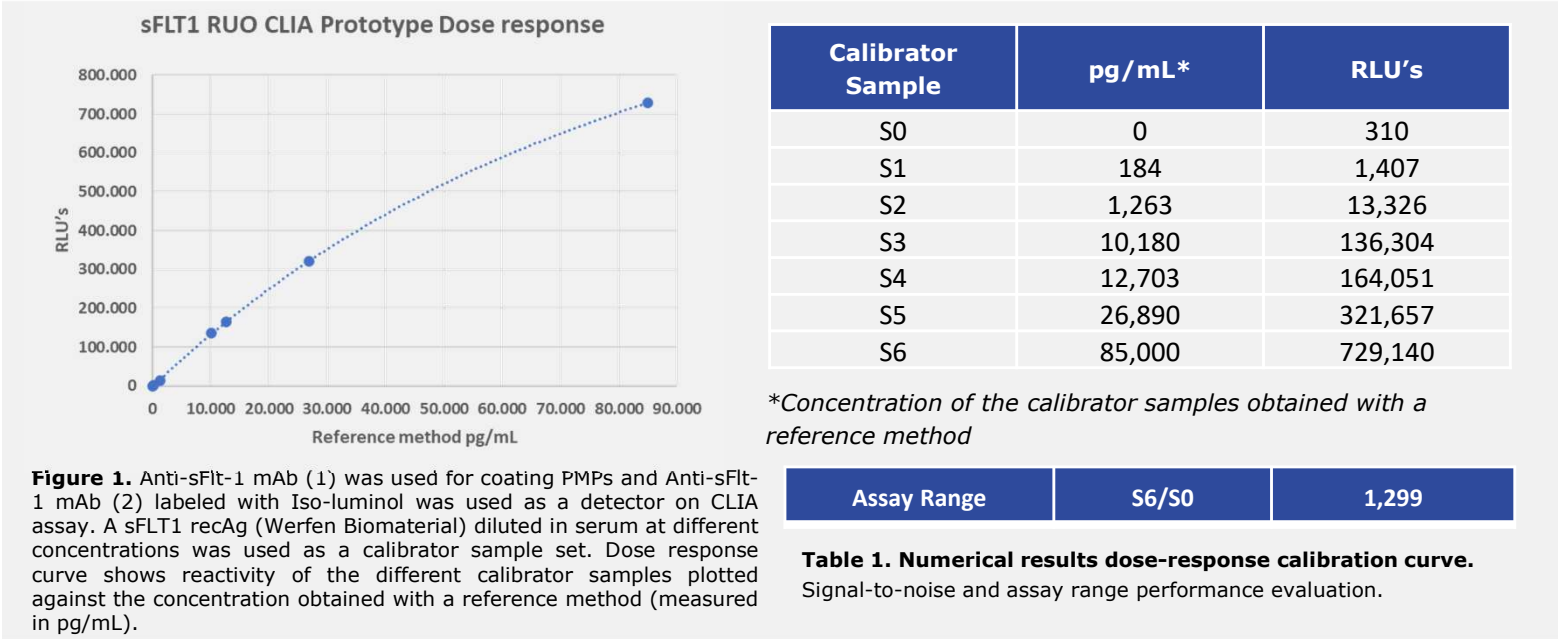
Assay Scheme

Quantitative detection of soluble FMS-like tyrosine kinase in human serum/plasma

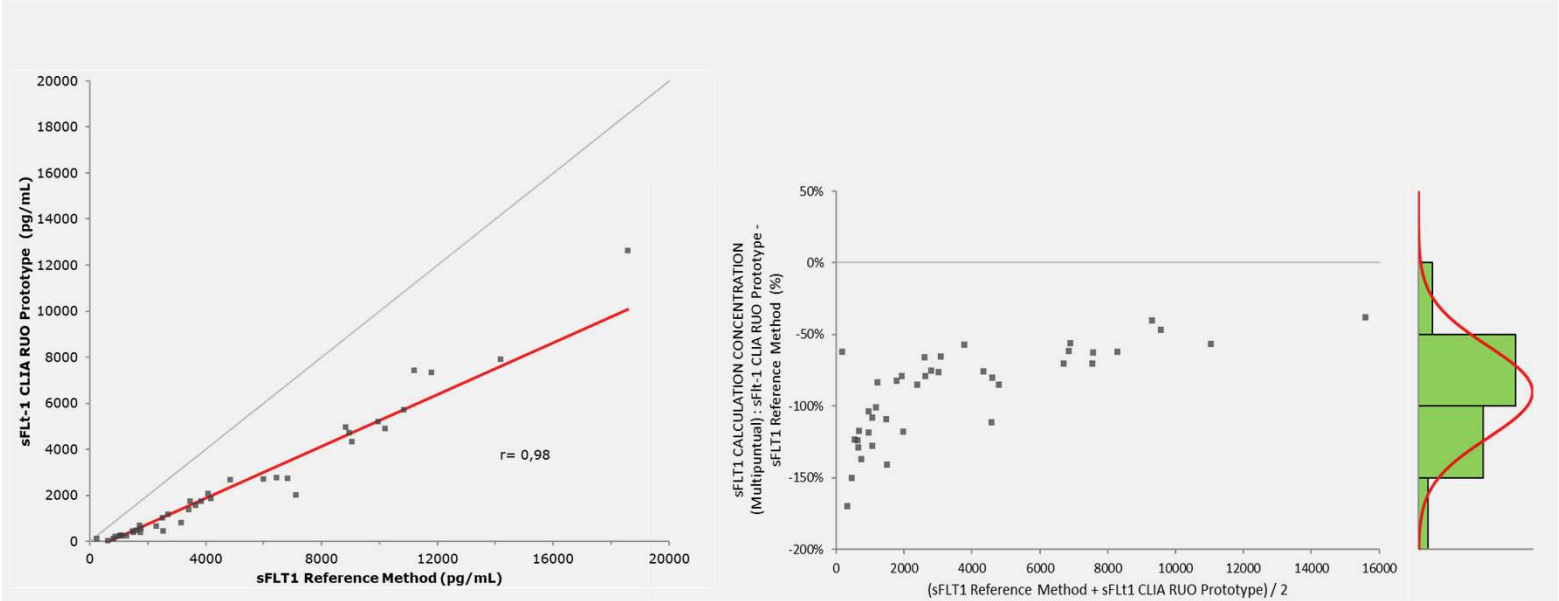


¹ World Health Organization (WHO). (2019). Maternal Mortality. Retrieved from <https://www.who.int/news-room/fact-sheets/detail/maternal-mortality>

Dose-response in sFlt-1 RUO prototype



Method Comparison of sFlt-1 RUO prototype vs reference assay



Werfen’s Biomaterial offering

Anti-sFtl-1 mAb (SFT10m) (ref 3000-5334/3000-5333) Storage: -70°C Source: Hybridoma cell Line Storage buffer: MES , NaCl pH 6,0 Purification method: Protein A Protein concentration: ≥1 mg/mL Preservative: None	Anti-sFtl-1 mAb (SFT18m) (ref 3000-5336/3000-5335) Storage: -70°C Source: Hybridoma cell Line Storage buffer: MES , NaCl pH 6,0 Purification method: Protein A Protein concentration: ≥1 mg/mL Preservative: None
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 Contact immunoassay@werfen.com for further technical information and product availability