

B·R·A·H·M·S sFlt-1 KRYPTOR

Improved pre-eclampsia diagnosis and prognosis

Thermo Scientific™ B·R·A·H·M·S™ sFlt-1 KRYPTOR™ is an automated immunofluorescent assay for the quantitative determination of soluble FMS-like Tyrosine Kinase 1 (sFlt-1) in human serum and EDTA plasma.

- Excellent precision
- Wide measuring range
- Incubation time of only 9 minutes

Clinical Interest

- Aid in diagnosis of pre-eclampsia together with B·R·A·H·M·S PIGF plus KRYPTOR and additional clinical evaluation in pregnant women with suspected pre-eclampsia > 20 weeks of gestation
- Aid in short-term prognosis of pre-eclampsia together with B·R·A·H·M·S PIGF plus KRYPTOR and additional clinical evaluation in pre-eclamptic women



Ease of Handling

| | |
|------------------------|--------------------|
| Sample volume | 8 µL |
| Sample type | Serum, EDTA plasma |
| Incubation time | 9 min |
| Measuring range | 22–90 000 pg/mL |
| Detection limit | 22 pg/mL |
| FAS | 29 pg/mL |
| Kit stability on board | 29 days |
| Calibrator | 2 point |
| Calibration stability | 15 days |



Excellent Precision

| Reproducibility | | |
|-----------------|--------------|-------------------|
| Sample | Mean [pg/mL] | Within-assay CV % |
| 1 | 599 | 1.0% |
| 2 | 2696 | 0.8% |
| 3 | 31173 | 0.8% |
| 4 | 50452 | 0.9% |

| Sample | Mean [pg/mL] | Between-assay CV % |
|--------|--------------|--------------------|
| 5 | 1559 | 4.2% |
| 6 | 3055 | 3.7% |
| 7 | 31173 | 3.0% |
| 8 | 53462 | 3.9% |

Clinical sensitivity and specificity

In a study PIGF and sFit-1 were measured on KRYPTOR in parallel on samples from 109 pregnant women with normal pregnancy outcome and 20 patients with pre-eclampsia. At a cut-off of 85 the sensitivity was calculated at 95% and the specificity at 84% for predicting pre-eclampsia.

Calibration

The sFit-1 results are given in pg/mL, an international reference preparation is not available.

Thermo Scientific Products

| Article number | Description |
|----------------|--|
| 845.075 | B·R·A·H·M·S sFit-1 KRYPTOR Kit, reagents for 75 determinations |
| 84591 | B·R·A·H·M·S sFit-1 KRYPTOR CAL Calibrator kit |
| 84592 | B·R·A·H·M·S sFit-1 KRYPTOR QC Control kit, 3 levels |

Normal Values During Pregnancy

| sFit-1 | | | | |
|-----------------------------------|-----|------------------------------------|----------------|-------------------------------------|
| Gestational age (completed weeks) | n | 5 th percentile [pg/mL] | Median [pg/mL] | 95 th percentile [pg/mL] |
| 14-19 | 21 | 764 | 1515 | 2545 |
| 20-24 | 60 | 626 | 1319 | 4443 |
| 25-28 | 66 | 612 | 1231 | 3958 |
| 29-33 | 44 | 697 | 1395 | 3722 |
| 34-36 | 39 | 1023 | 2971 | 8492 |
| 37-delivery | 117 | 961 | 3079 | 7524 |

| sFit-1/PIGF ratio | | | | |
|-----------------------------------|-----|----------------------------|--------|-----------------------------|
| Gestational age (completed weeks) | n | 5 th percentile | Median | 95 th percentile |
| 14-19 | 21 | 5 | 14 | 26 |
| 20-24 | 60 | 1 | 4 | 17 |
| 25-28 | 66 | 1 | 3 | 9 |
| 29-33 | 44 | 1 | 3 | 35 |
| 34-36 | 39 | 2 | 17 | 158 |
| 37-delivery | 117 | 2 | 29 | 131 |

| B·R·A·H·M·S sFit-1 KRYPTOR is available on | |
|--|---|
| <input type="checkbox"/> | B·R·A·H·M·S KRYPTOR |
| <input type="checkbox"/> | B·R·A·H·M·S KRYPTOR compact |
| <input checked="" type="checkbox"/> | B·R·A·H·M·S KRYPTOR compact PLUS |
| <input checked="" type="checkbox"/> | B·R·A·H·M·S KRYPTOR GOLD |

B·R·A·H·M·S sFit-1 KRYPTOR is **CE** marked.

Clinical Diagnostics

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