**Supplementary Materials**

**SupplementaryTable S1:** List of antibodies used in this study

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Antigen | Donor Species | Dilution | | Manufacturer | RRID |
| IF | WB |
| ***Primary antibodies*** | | | | | |
| P-Tyr | Mouse | 1:50 | 1:250 | Santa Cruz Biotechnology | AB\_628123 |
| Tubulin | Mouse | - | 1:1000 | Sigma Aldrich | AB\_628123 |
| ***Secondary antibodies*** | | | | | |
| Anti-Mouse IgM FITC | Goat | 1:400 | - | Sigma Life Science | AB\_259799 |
| Anti-Mouse-IgG HRP | Goat | - | 1:2000 | Bio-Rad Laboratories | AB\_609692 |

**Supplementary Table S2:** List of patients' (n=27) characteristics and seminal values.

|  |  |  |
| --- | --- | --- |
| **Parameters** | **Average** | **Range** |
| Age (years) | 34,2 | 16-51 |
| BMI | 23,5 | 17,63-32 |
| Seminal volume (ml) | 3,1 | 1,5-7 |
| Number of spermatozoa (x106)/ml | 75,4 | 20-240 |
| Total number of spermatozoa (x106) | 208,3 | 57,6-455 |
| Motility (%) | 65 | 47-78 |
| Morphologically normal sperm (%) | 9 | 4-16 |