**Supplementary Table 1.** Control Cell Lines and Primary and Secondary Antibodies.

|  |  |  |
| --- | --- | --- |
| **Marker** | **Control Cells** | **Antibody and Fluorophores** |
| **Primary** | **Secondary** |
| EpCAM | SKBR-3 | PE | - |
| panCK | SKBR-3 | FITC | - |
| CD45 | PBMCs | cy5.5 | - |
| SMA | A431 | (unconjugated) | Alexa Fluor 448 |
| Desmin | SJCRH30 | (unconjugated) | Alexa Fluor 448 |
| Synaptophysin | (patient derived) | (unconjugated) | Alexa Fluor 594 |
| Chromogranin | (patient derived) | (unconjugated) | Alexa Fluor 594 |

**Supplementary Table 2.** Demographic Details of Cancer Patients.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Male** | **Female** | **Total** |
| N =  | 2422 | 1997 | 4419 |
| **Age (years)**Median (Range) | 57 (17-80) | 58 (18-95) | 58 (17-95) |
| **Cancer Type**AdrenalAnalBile DuctBladderBreastCervixColorectalGallbladderHead and NeckKidneyLiverLungNeuroendocrineOesophagusOvaryPancreasPenisProstateSarcomaSkinSmall IntestineStomachTestisThyroidUnknown primaryUterusVagina | 12822220121215705976311874067175853616265161530800 | 333147571846739148303511155010333002695340302355419 | 45113677918418860718891114221312410310017585622579916455435419 |

**Supplementary Table 3.** Demographic Details of patients with benign conditions

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Male** | **Female** | **Total** |
| N =  | 153 | 171 | 324 |
| **Age (years)**Median (Range) | 53 (20-77) | 54 (19-82) | 53 (19-82) |
| **Subtype**BoneBreastCervixCNSColorectalGallbladderHead and NeckLungLymph NodeNerve SheathOesophagusOtherOvaryPancreasProstateSkinSmall IntestineSmooth MuscleStomachThyroidUterus | 621010241432310157606350 | 4669235110420252200015264 | 106810245351852562215761115114 |

**Supplementary Table 4. Follow-up Questionnaire.**

|  |  |
| --- | --- |
| **Question** **Number** | **Question** |
| **1** | “Are there any health-related complaints?” |
| **2** | “Has (the individual) faced any major illnesses?” |
| **3** | “Has (the individual) undergone any investigations like scans, biopsy or related blood tests?” |