**Supplementary material. Details of protocols used for the immunohistochemical characterization of prostatic lesions**

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| **Antibody** | **Manufacturer** | **Dilution** | **Detection system** | **Antigen unmasking system** |
| Rabbit polyclonal anti-human AR | Santa Cruz Biotechnology | 1:1000 | Avidin-biotin-peroxidase (Vectastain Standard Elite, Vector Labs) | HIAR (microwave, sodium citrate buffer pH 6.0) |
| mouse monoclonal anti-human CK8/18 | Novocastra | 1:600 | Avidin-biotin-peroxidase (Vectastain Standard Elite, Vector Labs) | Proteinase K |
| mouse monoclonal anti-human CK5 | Novocastra | 1:300 | Avidin-biotin-peroxidase (Vectastain Standard Elite, Vector Labs) | HIAR (microwave, sodium citrate buffer pH 6.0) |
| Mouse monoclonal anti-mouse p63 | Dako Cytomation | 1:150 | Peroxidase-conjugated polymer system (Envision, Dako) | HIAR (Pressure cooker, sodium citrate buffer pH 6.0) |

Legend: AR = androgen receptor; HIAR = heat-induced antigen retrieval