# Anti-P63, rabbit monoclonal (BSR6)

BSH-3006-100 (0.1ml), BSH-3006-1 (1 ml)

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| **Clonality:** | Rabbit monoclonal antibody |
| **Clone:** | BSR6 |
| **Application:** | IHC-P (1:100 – 1:400) |
| **Species Reactivity:** | Human, mouse |
| **Control tissues:** | Tonsil, prostate |
| **Alias names:** | p63α, p63 alpha |
| **Buffer:** | TRIS with 0.03% sodium azide, pH 7.2 |
| **Storage:** | Store at 4°C |

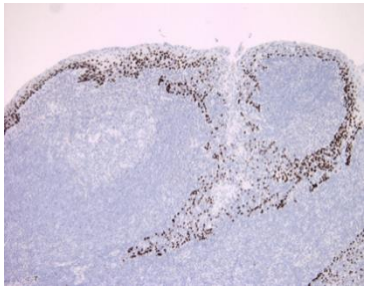
## Description

The p63 gene is a homologue of the p53 tumor suppressor gene. The p63 gene encodes for at least six major isotypes. P63 protein is a nuclear transcription factor and it is highly expressed in the basal cells of the epithelium. P63 is a useful marker for squamous, urothelial and myoepithelial carcinomas. P63 is found in the large majority of cases of squamous cell carcinoma. In basal-like subtype breast carcinoma, p63 is rarely detected. Prostate adenocarcinoma is typically P63 negative and P63 staining is useful for diagnosis of the prostate adenocarcinomas together with HMW-CK and AMACR.

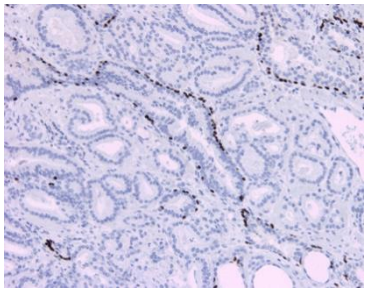
## Protocol

1. Deparaffinize and rehydrate tissue section
2. Wash: aqua dest, 2×5 min
3. Pre-treatment: PT-module HIER pH 9.0 (20min at 98°C)
4. $H_2O_2$ (concentration 3%), 10 min
5. Wash: PBS or TBS buffer, 2×5 min
6. Primary antibody diluted as recommended, 30 min
7. Wash: PBS or TBS buffer, 2×5 min
8. One step HRP-polymer detection, 30 min
9. Wash: PBS or TBS buffer, 2×5 min
10. DAB Substrate, 8 min
11. Wash: aqua dest, 2×2 min
12. Counterstain, dehydrate and coverslip

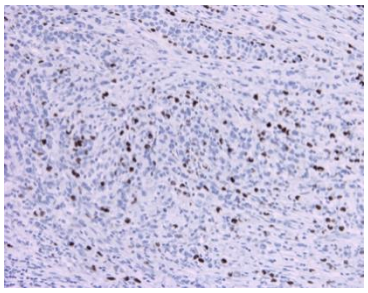
Dilution of concentrated antibody depends on the pre-treatment method and detection system used. Above protocol used in Optibodies evaluation and is meant as a reference. Final working dilution and protocol applied needs to be determined by the user always.



Tonsil section has been stained using P63 optibody (BSR6) with 1:200 dilution. Basal cells of epithelium have strongly stained with nuclear staining pattern. membranous staining pattern.



Prostate adenocarcinoma section has been stained using P63 optibody (BSR6) with 1:200 dilution. Normal prostate glands are P63 positive, prostate adenocarcinoma are P63 negative.



Ductal breast carcinoma section has been stained using P63 optibody (BSR6) with 1:200 dilution. Scattered and strongly to moderately stained, P63 positive carcinoma cells were observed.