Anti-Ki67, mouse monoclonal (BS4)

BSH-7302-100 (0.1 ml), BSH-7302-1 (1 ml)

Clonality:	Mouse monoclonal antibody
Clone:	BS4
Application:	IHC-P (1:100 – 1:400), IHC- Fro
Species Reactivity:	Human
Control tissues:	Tonsil, colon/appendix
Buffer:	TRIS with 0.03% sodium azide, pH 7.2
Storage:	Store at 4°C

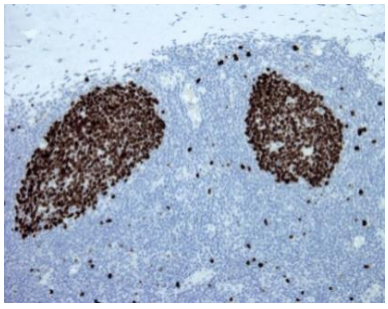
Description

Ki67, also MKI67, is aprototypic cell cycle related nuclear protein, expressed by proliferating cells in all phases of the active cell cycle (G1, S, G2 and M phase), and absent in resting (G0) cells. Ki67 staining are useful in establishing the cell growing fraction in neoplasms (quantified by determining the number of Ki67 positive cells among the total number of resting cells = Ki67 index). The correlation between low Ki67 index and histologically low grade tumors is strong. Ki67 is routinely used as a prognostic marker of breast cancer and as a neuronal marker of cell cycling and proliferation.

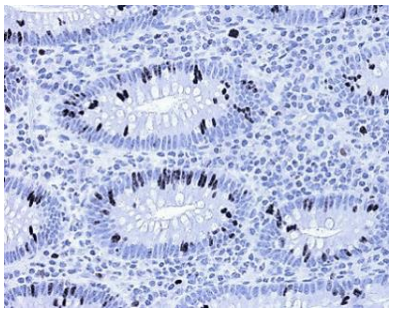
Protocol

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

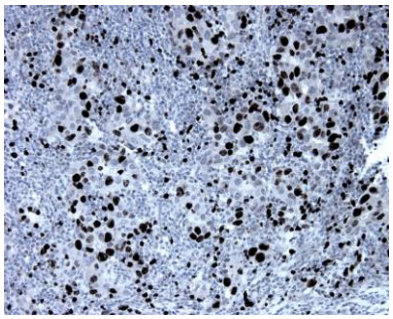
Dilution of concentrated antibody depends on the pre-treatment method and detection system used. Above protocol used in Optibodies evaluation and is meant as a reference. Final working dilution and protocol applied needs to be determined by the user always.



Tonsil section has been stained using Ki67 optibody (Clone: BS4) with 1:200 dilution. Majority of the germinal center B- cells have strong nuclear label.



Appendix section has been stained using Ki67 optibody (Clone: BS4) with 1:200 dilution. Strong nuclear staining in proliferating cells of intestinal crypts.



Breast carcinoma section has been stained using Ki67 optibody (Clone: BS4) with 1:200 dilution. Proliferating carcinoma cells have strong to moderate nuclear staining reaction.