Anti-CD23, mouse monoclonal (BS20)

BSH-3004-100 (0.1ml), BSH-3004-1 (1 ml)

Clonality:	Mouse monoclonal antibody
Clone:	BS20
Application:	IHC-P (1:100 – 1:400), IHC-Fro
Species Reactivity:	Human
Control tissues:	Appendix, tonsil
Buffer:	TRIS with 0.03% sodium azide, pH 7.2
Storage:	Store at 4°C

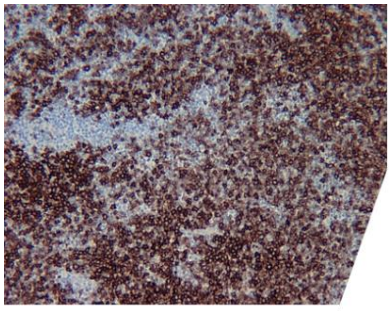
Description

The human leukocyte differentiation antigen CD23 (FCER2) is a key molecule for B-cell activation and growth. It is expressed on most mature B-cells and can also be found on the surface of T cells, macrophages, platelets and EBV transformed B-lymphoblasts. Expression of CD23 has been detected in neoplastic cells from cases of B cell chronic lymphocytic leukemia. CD23 is expressed by B cells in the follicular mantle zone B-cells and follicular dendritic cells. CD23 is distinct from the high affinity IgE receptors found on basophils and mast cells, which mediate allergic reactions.

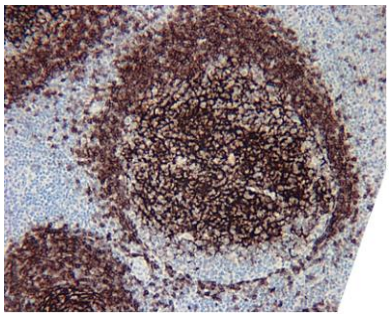
Protocol

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

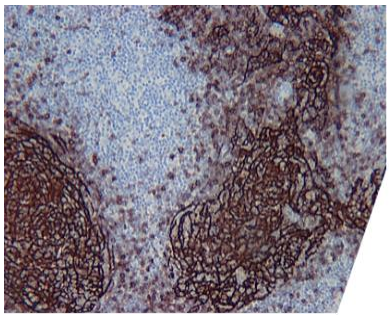
Dilution of concentrated antibody depends on the pre-treatment method and detection system used. Above protocol used in Optibodies evaluation and is meant as a reference. Final working dilution and protocol applied needs to be determined by the user always.



Tumor section stained with CD23 optibody (Clone: BS20) using 1:200 dilution. Neoplastic cells have strong to moderate label



Tonsil section stained with CD23 optibody (Clone: BS20) using 1:200 dilution. B-cells of mantle zone have a strong or moderate membranous label and follicular dendritic cells stained strongly.



Follicular lymphoma section stained with CD23 optibody (Clone: BS20) using 1:200 dilution. Dendritic cells have strong label.