Nordic BioSite
- in Life Science Research

Anti-CD5, rabbit monoclonal (BSR33)

BSH-4006-100 (0,1ml), BSH-4006-1 (1 ml)

CE IVD

Clonality:	Rabbit monoclonal antibody
Clone:	BSR33
Application:	IHC
Species Reactivity:	Human
Control tissues:	Appendix, tonsil
Buffer:	TRIS with 0.03% sodium azide, pH 7,2
Storage:	Store at 4℃

Description

CD5 is a transmembrane glycoprotein which is expressed on the majority of matured human T-cells. The expression level of CD5 increases during T-cell maturation. CD5 is also expressed in a small subset of normal human B-cells. CD5 is expressed in most T-cell lymphomas and leukemias, and absence of CD5 expression in T-cell lymphoma indicates a poor prognosis. B-cell lymphomas e.g., small lymphocytic lymphoma (SLL), small-cell lymphoma (CD20+), and mantle cell lymphoma are typically CD5-positive. Marginal zone lymphoma and follicular lymphoma are CD5-negative.

Protocol

After paraffin removing and rehydration:
1. Pre-treatment: PT-module HIER pH9 (20min at 98℃)
2. Wash (TBS-Tween in all washing steps)
3. Primary antibody: CD5 1:100 – 1:400, 30 min.
4. Wash
5. Peroxidase blocking (3% H_2O_2), 10 min.
6. Wash
7. One step HRP-polymer detection, 30 min
8. Wash x2
9. DAB-Substrate, 10 min
10. Aqua
11. $CuSO_4$ -post enhancement, 5 min
12. Aqua
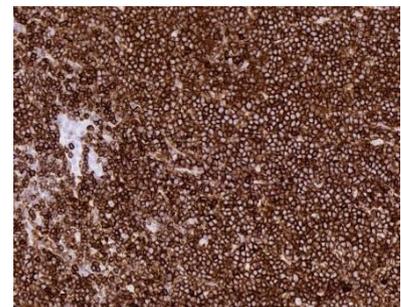Counter staining, Bluing, dehydration, clearing, and mounting.

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.
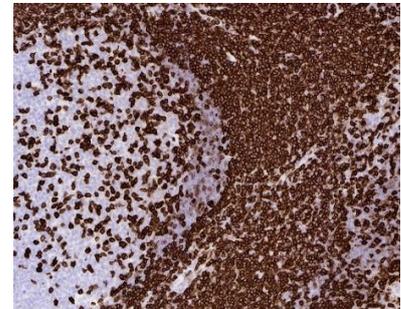
a)
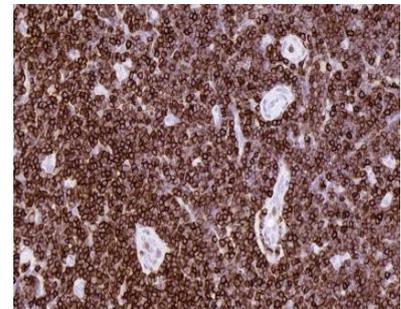
b)

c)

CD5 stained tissue sections. Tissue from tonsil (a), SLL (b), and mantle cell lymphoma (c) were stained using CD5 optibody (Clone: BSR33) with a 1:200 dilution. T-cells from tonsil exhibit a strong membranous staining pattern. B-cells in the mantle zone exhibit moderate staining for CD5. Scattered T-cells in germinal centers stain strongly for CD5 (a). SLL and MCL exhibit a strong membranous staining pattern (b and c).

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