Anti-Cyclin D1, rabbit monoclonal (BSR112)

BSH-4002-100 (0.1 ml), BSH-4002-1 (1 ml)

Clonality:	Rabbit monoclonal antibody
Clone:	BSR112
Application:	IHC
Species Reactivity:	Human
Control tissues:	Tonsil, mantle cell lymphoma
Buffer:	TRIS with 0.03% sodium azide, pH 7. 2
Storage:	Store at 4°C

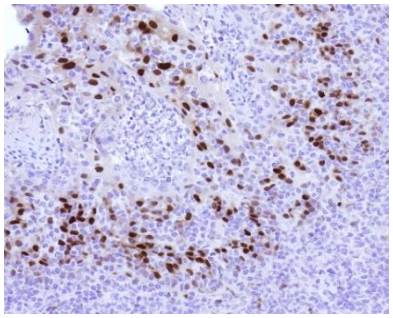
Description

Cyclin D1, is cell cycle regulator and it is over expressed in a wide variety of human neoplasms. Cyclin D1 forms a complex with regulatory subunit of CDK4 or CDK6 kinases and it is required for cell cycle G1/S transition. The expression is maximal in G1 and minimal in S phase of cell cycle. Cyclin D1 expression is located mainly to the proliferative zone of normal epithelial tissues. Localization of the cyclin D1 is mainly nuclear. Cyclin D is useful for lymphoma diagnostic, especially diagnosis of mantle cell lymphoma.

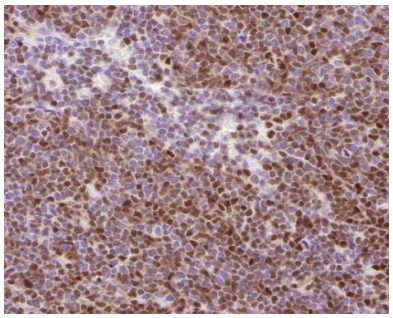
Protocol

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

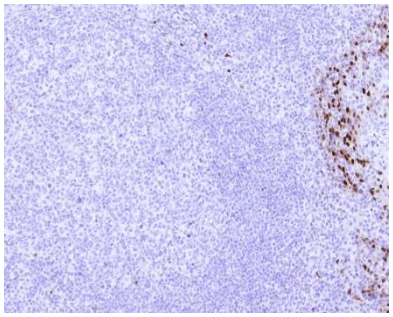
Dilution of concentrated antibody depends on the pre-treatment method and detection system used. Above protocol used in Optibodies evaluation and is meant as a reference. Final working dilution and protocol applied needs to be determined by the user always.



a)



b)



c)

Cyclin D1 stained tissue sections. Tonsil (a, c) and mantle cell lymphoma sections (b) have been stained using cyclin D1 optibody (Clone: BSR112) with 1:200 dilution. Note weak to moderate nuclear label in germinal center macrophages.