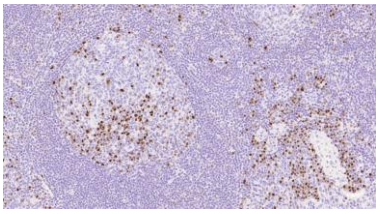
Nordic Biosite
Part of Europa Biosite

Anti-MUM1, rabbit monoclonal (BSR38)

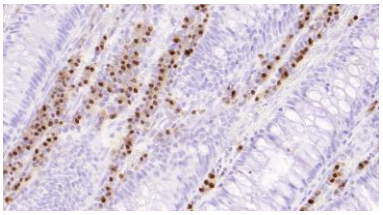
BSH-4019-100 (0.1 ml), BSH-4019-1 (1 ml)

UK CA CE IVD

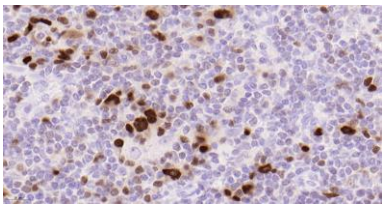
Clonality:	Rabbit monoclonal antibody
Clone:	BSR38
Application:	IHC-P (1:100 – 1:400)
Species Reactivity:	Human
Control tissues:	Normal tonsil and colon
Buffer:	TRIS with 0.03% sodium azide, pH 7.2
Storage:	Store at 4°C



Tonsil section has been stained with MUM1 optibody (BSR38) with 1:200 dilution. The late stage germinal centre B-cells display a moderate to strong nuclear staining. Plasma cells are strongly stained.



Colon section has been stained with MUM1 optibody (BSR38) with 1:200 dilution. Plasma cells are strongly stained in the mucosa and all other structures are negative.



Hodgkins lymphoma has been stained with MUM1 optibody (BSR38) with 1:200 dilution. A strong nuclear staining of the neoplastic cells (Reed-Sternberg cells) in Hodgkin lymphoma.

Description

MUM1 is a nuclear transcriptional factor (IRF4 or Multiple Myeloma 1) and is expressed in final step of intragerminal center B cell differentiation and in post-germinal center B cells. MUM1 is usually mutually exclusive with BCL6 in nonneoplastic tissue. Nuclear expression is present also in a subpopulation of activated T- lymphocytes and expressed in normal and neoplastic melanocytes. In neoplasms MUM1 is found mainly in B-cell lymphoma and melanocytic lesions. In combination with CD138 and Ig´s makes MUM1 more specific marker for differentiating B-cells before plasma cell stage. MUM1 helps to divide diffuse large B cell lymphomas into germinal center (MUM1-) /non-germinal center (MUM1+) phenotypes and helps also to differentiate double hit from Burkitt and DLCL.

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.