Anti-CD38, mouse monoclonal (BS3)

BSH-7347-100 (0.1 ml), BSH-7347-1 (1 ml)

Clonality:	Mouse monoclonal antibody
Clone:	BS3
Application:	IHC-P (1:100 – 1:400)
Species Reactivity:	Human
Control tissues:	Tonsil, appendix
Buffer:	TRIS with 0.03% sodium azide, pH 7.2
Storage:	Store at 4°C

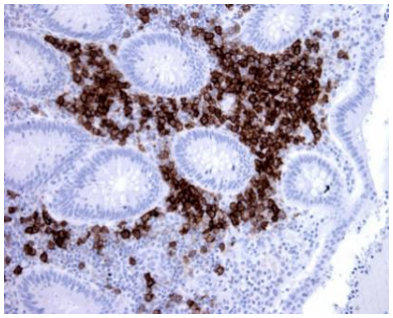
Description

CD38 is a type II integral membrane glycoprotein which is present on early B and T cell lineages and activated B and T cells but is absent from most mature resting peripheral lymphocytes. CD38 is also found on thymocytes, pre-B cells, germinal center B cells, mitogen-activated T cells, monocytes and Ig-secreting plasma cells. CD38 acts as a NAD glycohydrolase in T lym- phocytes. On hematopoietic cells CD38 induces activation, proliferation, and differentiation of mature T and B cells and mediates apoptosis of myeloid and lymphoid progenitor cells. CD38 also plays a role in maintaining survival of an invariant NK T (iNKT) cell subset that preferentially contributes to the maintenance of immunological tolerance.

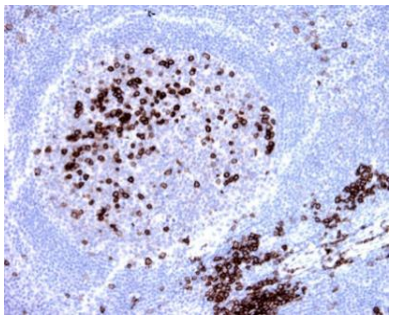
Protocol

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

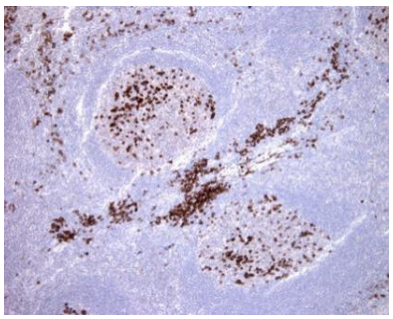
Dilution of concentrated antibody depends on the pre-treatment method and detection system used. Above protocol used in Optibodies evaluation and is meant as a reference. Final working dilution and protocol applied needs to be determined by the user always.



Appendix section has been stained using CD38 optibody (Clone: BS3) with 1:200 dilution. Strong membranous staining observed from plasma cells.



Tonsil section have been stained using CD38 optibody (Clone: BS3) with 1:200 dilution. Strong membranous staining observed from scattered B-cells in germinal center and maturing B-cells. A moderate staining reaction in plasma cells.



Tonsil section have been stained using CD38 optibody (Clone: BS3) with 1:200 dilution. Strong membranous staining observed from scattered B-cells in germinal center and maturing B-cells. A moderate staining reaction in plasma cells.