

Anti-CD44, rabbit monoclonal (BSR23)

BSH-4013-100 (0.1ml), BSH-4013-1 (1ml)



Clonality:	Rabbit monoclonal antibody
Clone:	BSR23
Application:	IHC-P (1:100 – 1:400)
Species Reactivity:	Human
Control tissues:	Stomach, appendix, uterus, astrocytes
Buffer:	TRIS with 0.03% sodium azide, pH 7,2
Storage:	Store at 4°C

Description

The CD44 antigen, also referred as homing cell adhesion molecule (HCAM), is a multi-structural and multifunctional cell-surface glycoprotein involved in cell-cell interactions, cell adhesion, and migration. Most tissues are CD44 positive, including astrocyte restricted precursor cells, breast myoepithelial cells, colon, lung type II pneumocytes, red blood cells, stomach, urothelial basal cells, uterus and white blood cells. Negative staining results is seen in testis, kidney tubular epithelium, cardiac muscle, hepatocytes. In disease, positive staining is seen in colorectal carcinoma (most), Langerhans histiocytosis, oligodendroglioma, thymoma, small cell prostate carcinoma.

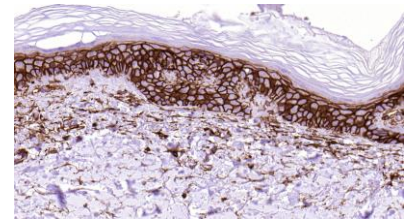
Protocol

After paraffin removing and rehydration:

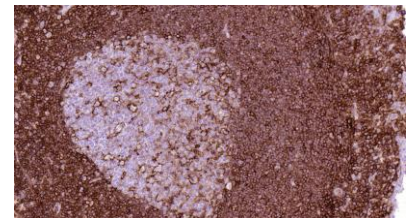
1. Pre-treatment: PT-module HIER pH9 (20min at 98°C)
2. Wash (TBS-Tween in all washing steps)
3. Primary antibody: CD44 1:100 – 1:400, 30 min.
4. Wash
5. Peroxidase blocking (3% H₂O₂), 10 min.
6. Wash
7. One step HRP-polymer detection, 30 min
8. Wash x2
9. DAB-Substrate, 10 min
10. Aqua
11. CuSO₄ -post enhancement, 5 min
12. Aqua

Counter staining, Bluing, dehydration, clearing, and mounting.

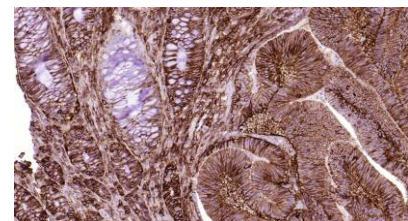
Dilution of concentrated antibody depends on the pre-treatment method and detection system used. Above protocol used in Optibodies evaluation and is meant as a reference. Final working dilution and protocol applied needs to be determined by the user always.



Skin section has been stained using CD44 antibody (Clone BSR23) with dilution 1:200. Strong staining reaction is seen predominantly in epidermis on keratinocytes cell membrane. Positive staining is also seen in fibroblasts, myoepithelial cells and endothelial cells and basal lamina.



Tonsil section has been stained using CD44 antibody (Clone BSR23) with dilution 1:200. Strong staining is seen in mantle cells, parafollicular area and in germinal center macrophages.



Colon carcinoma section has been stained using CD44 antibody (Clone BSR23) with dilution 1:200. Positive staining result is seen in carcinoma cells.