

## Anti-CD117, rabbit monoclonal (BSR24)

BSH-4015-100 (0.1 ml), BSH-4015-1 (1 ml)



<b>Clonality:</b>	Rabbit monoclonal antibody
<b>Clone:</b>	BSR24
<b>Application:</b>	IHC-P (1:100 – 1:400)
<b>Species Reactivity:</b>	Human
<b>Control tissues:</b>	Appendix, GIST
<b>Buffer:</b>	TRIS with 0.03% sodium azide, pH 7.2
<b>Storage:</b>	Store at 4°C

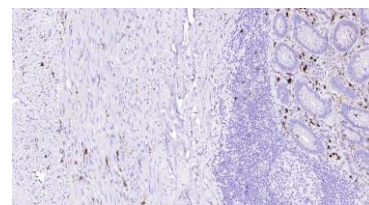
### Description

CD117 is a cell membrane protein encoded by the c-kit proto-oncogene. CD117 is expressed in mast cells, skin melanocytes and interstitial Cajal cells (ICC). These cells show a strong membrane and cytoplasmic staining. CD117 is also expressed in various epithelia (salivary glands, renal tubular cells etc.). Appendix serves as a good positive and negative control tissue. Neoplasms such as gastrointestinal stromal tumor (GIST), mast cell neoplasms and many other (seminoma, Merkel cell carcinoma etc.) express CD117. This antibody (together with DOG-1, CD34, SMA) is of great importance in the diagnosis of GIST, because of specific treatment of GIST patient with Gleevec.

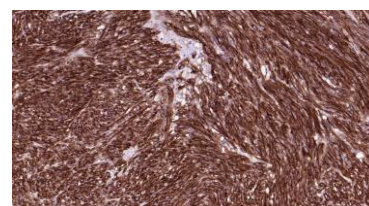
### Protocol

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<sub>2</sub>O<sub>2</sub> (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 has been stained with anti-CD117 (BSR24) 1:200 dilution. In appendiceal muscularis propria a strong predominantly membranous but also cytoplasmic staining reaction is seen in Cajal cells. A strong predominantly membranous staining reaction of mast cells in lamina propria.



GIST has been stained with anti-CD117 (BSR24) 1:200 dilution. Strong staining reaction is seen in all neoplastic cells.