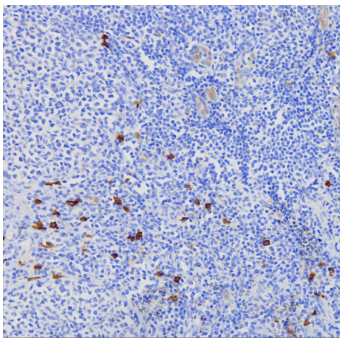
Technical Data Sheet

CD117 (YR145) - 155Gd

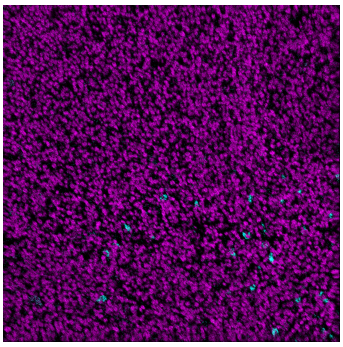
Catalog: 715501 Clone: YR145 Isotype: Rabbit IgG

Reactivity: Human*

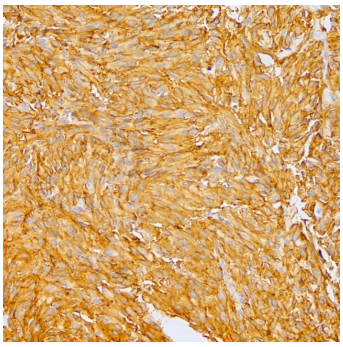
Storage: Supplied in antibody stabilizer with 0.05% sodium azide. Store at 4°C



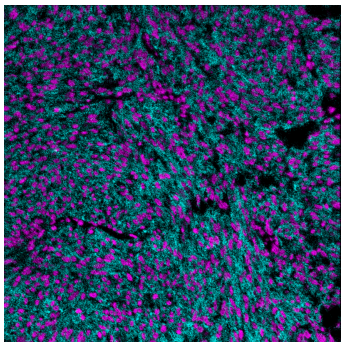
IHC: CD117 staining of FFPE human tonsil



MIBI: CD117 staining (cyan) of FFPE human tonsil, costained with dsDNA (magenta)



IHC: CD117 staining of FFPE human gastrointestinal stromal tumor



MIBI: CD117 staining (cyan) of FFPE human gastrointestinal stromal tumor, costained with dsDNA (magenta)

Background CD117 (c-Kit, stem cell growth factor receptor (SCFR)), is a receptor tyrosine kinase protein activated by stem cell factor (c-Kit ligand) leading to cell survival, proliferation, and differentiation. CD117 is expressed on pluripotent hematopoietic progenitor cells, mast cells, and can be used for tumor identification, for example, for diagnosis of gastrointestinal stromal tumors (GIST). Mutations within the gene are associated with GIST, melanoma, acute myeloid leukemia (AML), and mast cell disease. Many approved kinase inhibitors inhibit CD117's kinase activity and additional drug development is on-going. CD117 activation leads to mobilization of progenitor cells from the bone marrow to the bloodstream.

Validation Each lot of conjugated antibody is quality control tested by MIBIscope analysis of stained tissue microarray using the appropriate positive and negative field of views and are pathologist verified.

Recommended Usage: 1 µL per 100 µL staining volume using the MIBI™ Staining Protocol.
For optimal results, antibody should be titrated for each desired application. Suggested starting range is 1:100.

References

Abbaspour Babaei M., Kamalidehghan B., Saleem M., Huri H.Z., Ahmadipour F. Receptor tyrosine kinase (c-Kit) inhibitors: a potential therapeutic target in cancer cells. Drug Des Devel Ther. 2016;10:2443-59.

* Conjugate tested on human tissue.

 © 2019 Ionpath, Inc.

For technical support visit Ionpath.com
Email: techsupport@Ionpath.com