

CD117 Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50059

Clone# BP6064

Predicted Molecular Wt: 110kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P10721

Background:

CD117 is a cell membrane protein encoded by the c-kit proto-oncogene (chromosome 4q11-12). The protein is a type III tyrosine kinase growth factor receptor for stem cell factor (SCF), also known as mast cell growth factor. CD117 is required for the development and growth of a large number of cells expressing this protein.

CD117 is expressed in mast cells, melanocytes and interstitial cells of Cajal (ICC). The cells (particularly the mast cells) show a strong membrane as well as cytoplasmic staining. CD117 moreover is expressed in various epithelia (breast, sweat glands and salivary glands, renal tubular cells, thyroid follicular cells), usually showing a weaker, cytoplasmic reaction. In tumor tissues, CD117 is expressed in most cases of Gastrointestinal stromal tumor (GIST), mast cell neoplasms, malignant melanoma (however, the expression of CD117 is lost during progression and metastasising), seminoma/dysgerminoma and intratubular germ cell neoplasia, endometrial carcinoma, follicular and papillary thyroid carcinoma, Merkel cell carcinoma, cylindroma, malignant glioma, and angiomyolipoma. CD117 may be useful for the classification of several cancers expressing c-kit, including gastrointestinal stromal tumors (GISTs), mast cell diseases, acute myeloid leukemia (AML), small cell lung carcinoma (SCLC), and Ewing's sarcoma.

Subcellular location:

Membrane&Cytoplasm

Recommended method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

Synthetic peptide corresponding to CD117 residues within aa876-976 of CD117 was used as an immunogen.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:

-25°C to -18°C

Storage instructions:

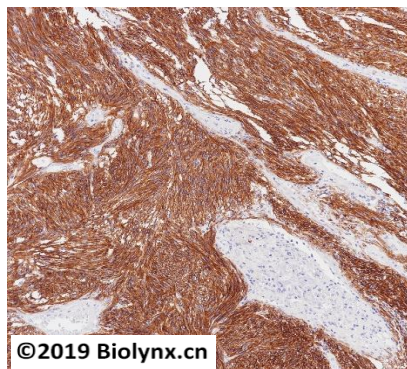
Shipped on blue ice. Upon delivery, aliquot, and store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilutions:

IHC-P: 1:100-1:200

Background References:

- Arber et al. Hum Pathol 1998; 29(5):498-504.
- Ashman LK et al. Int J Biochem Cell Biol. 1999 Oct;31(10):1037-51.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of gastrointestinal stromal tumor tissue labelling CD117 with BP6064. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.