

## CD117 Antibody / c-Kit / SCFR [clone C117/6347] (V5050)

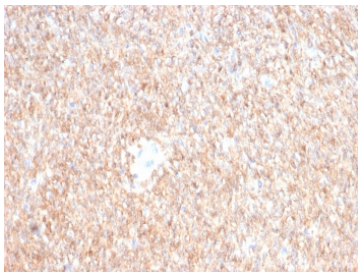
Catalog No.	Formulation	Size
V5050-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5050-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5050SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

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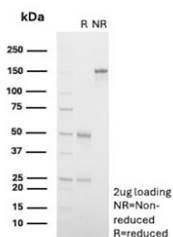
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG1, kappa
<b>Clone Name</b>	C117/6347
<b>Purity</b>	Protein A/G affinity
<b>UniProt</b>	P10721
<b>Localization</b>	Cell Surface, Cytoplasm
<b>Applications</b>	Immunohistochemistry (FFPE) : 2-4ug/ml for 30 min at RT
<b>Limitations</b>	This CD117 antibody is available for research use only.



Analysis of a HuProt(TM) microarray containing more than 19,000 full-length human proteins using CD117 antibody (clone C117/6347). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD&#39;s) above the mean value of all signals generated on that array. If targets on HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD&#39;s) between the Z-score. S-score therefore represents the relative target specificity of a mAb to its intended target. A mAb is considered to specific to its intended target, if the mAb has an S-score of at least 2.5. For example, if a mAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that mAb to protein X is equal to 29.



IHC staining of FFPE human GIST with CD117 antibody (clone C117/6347). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free CD117 antibody (clone C117/6347) as confirmation of integrity and purity.

## Description

This mAb recognizes a protein of 145kDa, identified as CD117/p145kit. It is found on a wide variety of tumor cells including follicular and papillary carcinoma of thyroid, adenocarcinomas from endometrium, lung, ovary, pancreas, and breast as well as malignant melanoma, endodermal sinus tumor, and small cell carcinoma. However, anti-CD117 has been particularly useful in differentiating gastrointestinal stromal tumors from Kaposi s sarcoma, tumors of smooth muscle origin, fibromatosis, and neural tumors of the GI tract. Anti-CD117 is also useful in recognizing myeloblasts in bone marrow biopsy and clot section.

## Application Notes

Optimal dilution of the CD117 antibody should be determined by the researcher.

## Immunogen

Recombinant full-length human protein was used as the immunogen for the CD117 antibody.

## Storage

Aliquot the CD117 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.