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## **CD117 / c-kit Oncoprotein / SCF-Receptor**

### **Epitope Specific Rabbit Antibody**

**Cat. #DLN-14213, -14217, -14219 (0.1, 0.5 or 1.0 ml at 200µg/ml)** (Purified Ab with BSA and Azide)

**Cat. #DLN-14221 (7.0ml)**

**Description:** Recognizes a protein of 145kDa, which is identified as CD117/p145kit. This rabbit polyclonal antibody does not interfere with the binding of SCF to c-kit. It precipitates both the unoccupied as well as the occupied form of c-kit. The binding of the stem cell factor (SCF) to the c-kit-encoded receptor tyrosine kinase (Type III) stimulates a variety of biochemical responses that culminate in cellular proliferation, migration, or survival. C-kit plays an important role in hematopoiesis, melanogenesis, and gametogenesis.

**Comments:** This antibody is excellent for staining of formalin-fixed, paraffin-embedded tissues.

**Mol. Wt. of Antigen:** 145kDa

**Epitope:** Cytoplasmic domain

**Species Reactivity:** Human and Dog. Others not tested.

**Immunogen:** A synthetic peptide from the cytoplasmic domain of human CD117 / c-kit protein.

### **Applications and Suggested Dilutions:**

- Immunohistology (Formalin/paraffin)  
**(Ab 1:100 for 10 min at RT)**
- \* [Staining of formalin-fixed tissues requires boiling tissue sections in 1mM EDTA, pH 8.0 for 10-20 min followed by cooling at RT for 20 min.]

The optimal dilution for a specific application should be determined by the investigator.

**Positive Control:** Stromal tumor, skin or tonsil

**Cellular Localization:** Cell membrane

### **Supplied As:**

Affinity purified antibody fraction from rabbit anti-serum. Prepared in 10mM PBS, pH 7.6, with 0.2% BSA and 15mM sodium azide.

or

Prediluted antibody which is ready-to-use for immunohistochemical staining.

### **Storage and Stability:**

Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months.



**DATA SHEET**

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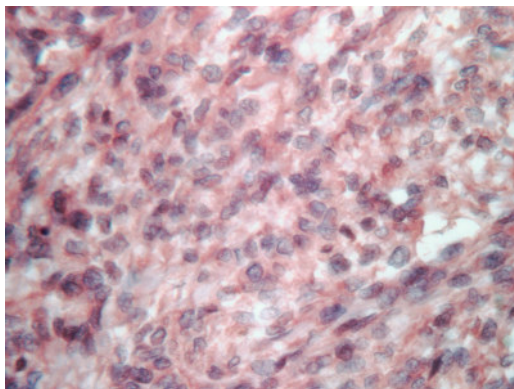
### ***Limitations and Warranty:***

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. Dianova is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

### ***Material Safety Data:***

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

### ***For Research Use Only***



Human stromal tumor stained with Anti-CD117, Cat# DLN-14219

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