CD117 / c-Kit / SCF-Receptor Ab-6
Rabbit Polyclonal Antibody
Cat. #RB-1518-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 1.0mg/ml) (Purified Ab with BSA and Azide)
Cat. #RB-1518-PIABX or -PABX (0.5ml or 1.0ml at 1.0mg/ml) (Purified Ab without BSA and Azide)
Cat. #RB-1518-R7 (7.0ml) (Ready-to-Use for Immunohistochemical Staining)
Cat. #RB-1518-PCS (5 Slides) (Positive Control for Histology)

**Description:** c-kit is a transmembrane receptor tyrosine kinase. It binds to stem cell factor (SCF). It is expressed in many tissues and cells. C-kit/SCf is involved in development of several lineages of stem cells, such as germ cells, neural crest-derived melanocytes and hematopoietic precursor cells. Antibody to CD117 / c-kit is very helpful in the histopathological identification of gastrointestinal stromal tumors (GIST).

**Comments:** Ab-6 is excellent for staining of formalin-fixed, paraffin-embedded tissues.

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

**Epitope:** C-terminal

**Species Reactivity:** Human. Others not known.

**Immunogen:** A synthetic peptide from C-terminus of human CD117 / c-kit protein.

**Applications and Suggested Dilutions:**
- Immunohistology (Formalin/paraffin only)
  (Use Ab 1:50 for 30 min at RT)
  (Staining of formalin-fixed tissuesRequires boiling tissue sections in 1mM EDTA, pH 8.0
  (NeoMarkers’ Cat. #AP-9004)
  or
  10mM citrate buffer, pH 6.0, (NeoMarkers’ Cat. #AP-9003) 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:** Tonsil, GI Stromal Tumor (GIST).

**Cellular Localization:** Cell membrane / cytoplasmic

**Storage and Stability:** Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

**Supplied As:** Total IgG purified from rabbit antisem by Protein A chromatography. Prepared at 1.0mg/ml in 10mM PBS, pH 7.4, with 0.2% BSA & 0.09% sodium azide. Also available without BSA and azide at 1 mg/ml. Or Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

**Suggested References:**

**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. NeoMarkers 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**

**Additional Suggested References:**


