

## Product datasheet for **AP26418AF-L**

### **c Kit (KIT) pTyr719 Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	ELISA
Recommended Dilution:	<b>ELISA:</b> The antibody (approx. 1:64,000 diluted) can detect the above Tyr 719 phosphorylated c-kit peptide coated on ELISA plate.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A synthetic peptide derived from tyrosine 719 phosphorylated c-kit, conjugated with KLH
Specificity:	This antibody reacts with Mouse, Human and other species with consensus c-kit peptide (SDSTNEYpMDMKPG).
Formulation:	0.01M PBS, pH 7.4 State: Azide Free State: Lyophilized Ig fraction
Reconstitution Method:	Restore with Double distilled water to adjust the final concentration to 1.00mg/ml.
Purification:	Protein G affinity
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 month or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	KIT proto-oncogene receptor tyrosine kinase
Database Link:	<a href="#">Entrez Gene 3815 Human P10721</a>



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**Background:**

c-kit, also known as CD117, is a receptor tyrosine kinase expressed at the surface of mast cells and certain types of stem cells. c-kit is activated and autophosphorylated upon binding with stem cell factor. Activated c-kit phosphorylates downstream SH2- domain-containing signalling molecules such as PLC $\gamma$ , the p85 subunit of PI3 kinase, SHP2, and CrkL. The binding is impaired when c-kit is mutated at tyrosine719. c-kit with phosphorylated tyrosine 719 binds to the p85 subunit of PI3 kinase in vitro and in vivo. C-kit is encoded by KIT gene and the gene is frequently over-expressed in gastrointestinal stromal tumor, myelogenous leukemia, and testicular germ cell tumor. Mutational loci of the gene are implicated with responsiveness to cancer drug imatinib.

**Synonyms:**

SCFR, KIT