

## Product datasheet for **AP02495PU-S**

### **c Kit (KIT) pTyr721 Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	WB
<b>Recommended Dilution:</b>	Western Blot: 1:500~1:1000.
<b>Reactivity:</b>	Human, Mouse
<b>Host:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	The antiserum was produced against synthesized phosphopeptide derived from human c-kit around the phosphorylation site of tyrosine 721 (N-E-YP-M-D).
<b>Specificity:</b>	c-Kit antibody detects endogenous levels of c-kit only when phosphorylated at tyrosine 721.
<b>Formulation:</b>	PBS(without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4 containing 150mM NaCl, 0.02% sodium azide and 50% glycerol State: Aff - Purified State: Liquid purified IgG
<b>Concentration:</b>	lot specific
<b>Purification:</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store the antibody at -20°C. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	KIT proto-oncogene receptor tyrosine kinase
<b>Database Link:</b>	<a href="#">Entrez Gene 3815 Human P10721</a>



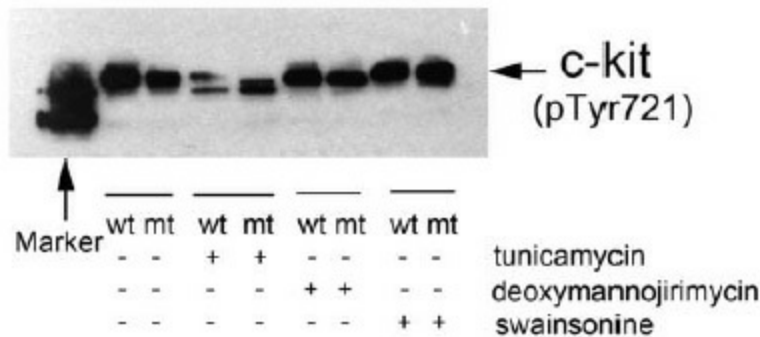
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**Background:**

c-Kit is a transmembrane tyrosine kinase encoded by the cKit proto oncogene. c-Kit acts to regulate a variety of biological responses including cell proliferation, apoptosis, chemotaxis and adhesion. Ligand binding to the extracellular domain leads to autophosphorylation on several tyrosine residues within the cytoplasmic domain, and activation. Mutations in c-Kit have been found to be important for tumor growth and progression in a variety of cancers including mast cell diseases, gastrointestinal stromal tumor, acute myeloid leukemia, Ewing sarcoma and lung cancer. Phosphorylation at tyrosine 721 of c-Kit allows binding and activation of PI3 kinase.

**Synonyms:**

SCFR, KIT

**Product images:**


Western blot analysis of extracts from 293T cells (transfected with wild or mutant type c-kit/pcDNA3.1) treated with SCF (100ng/ml, 15min), using c-Kit antibody.