

Product datasheet for **AP20799PU-N**

c Kit (KIT) pTyr721 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western blot: 1/500 - 1/1000.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of p-c-Kit protein, only when phosphorylated at Tyr721.
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 120,145 kDa
Gene Name:	KIT proto-oncogene receptor tyrosine kinase
Database Link:	Entrez Gene 16590 Mouse Entrez Gene 64030 Rat Entrez Gene 3815 Human P10721



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Background:

The c-Kit proto-oncogene has been identified as a member of the receptor tyrosine kinase family and more specifically has been shown to be closely related to the platelet derived growth factor receptor (PDGFR). c-Kit, the normal cellular homolog of the HZ4-feline sarcoma virus transforming gene v-Kit, encodes a transmembrane receptor with a molecular weight of 145- 160 kDa. c-Kit has also been shown to be identical with the product of the W locus in mice and as such is integral to the development of mast cells and hematopoiesis. The ligand for the c-Kit receptor (KL) has been identified and shown to be encoded at the murine steel (Sl) locus. Two sites on c-Kit are able to bind SH2(CHK), the Tyr 568/570 diphosphorylated sequence and the monophosphorylated Tyr 721 sequence.

Synonyms:

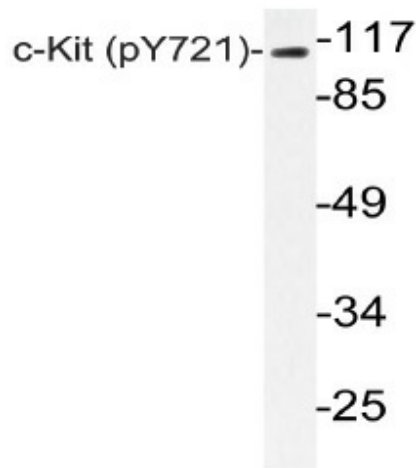
SCFR, KIT

Protein Families:

Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Protein Kinase, Stem cell - Pluripotency, Transmembrane

Protein Pathways:

Acute myeloid leukemia, Cytokine-cytokine receptor interaction, Endocytosis, Hematopoietic cell lineage, Melanogenesis, Pathways in cancer

Product images:

Western blot (WB) analyzes of p-c-Kit (pTyr721) antibody (Cat.-No.: AP20799PU-N) in extracts from HepG2 EGF cells.