



## Rabbit Anti-Phospho c-kit (Tyr719) Polyclonal Antibody Datasheet

Product Name: pAb Rabbit anti-Phospho c-kit (Tyr719)		Catalogue No.: AI70004A		Quantity: 0.1 mg/vial	
<b>Description:</b>	Rabbit anti-Tyrosine 719 phosphorylated c-kit polyclonal antibody	<b>Background:</b>	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.		
<b>Purification:</b>	Protein G affinity purified	<b>Applications:</b>	<b>ELISA:</b> The antibody (approx. 1:64,000 diluted) can detect the above Tyr 719 phosphorylated c-kit peptide coated on ELISA plate.  Other applications have not been evaluated.		
<b>Product Type:</b>	Primary antibody	<b>References:</b>	If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.		
<b>Target Protein:</b>	Tyrosine 719 phosphorylated c-kit				
<b>Immunogen:</b>	A synthetic peptide (SDSTNEY <sub>p</sub> MDMKPG) derived from tyrosine 719 phosphorylated c-kit, conjugated with KLH for immunization				
<b>Specificity:</b>	This antibody is reactive to the synthetic c-kit peptide (SDSTNEY <sub>p</sub> MDMKPG).				
<b>Species Reactivity:</b>	Mouse, human and other species with consensus c-kit peptide (SDSTNEY <sub>p</sub> MDMKPG)				
<b>Host</b>	Rabbit				
<b>Formulation:</b>	Lyophilized in pH 7.4, 0.01M PBS.				
<b>Reconstitution:</b>	Double distilled water is recommended to adjust the final concentration to 1.00mg/mL.				
<b>Storage:</b>	Store at -20°C				
<b>Research Area:</b>	Life science research, cell signalling, cancer research				

This product is for **LABORATORY RESEARCH USE** and further manufacture **ONLY**, and cannot be administrated to human and animals for use in diagnostic and therapeutic procedures.

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