

bs-5401R**[Primary Antibody]**

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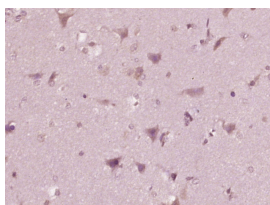
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Phospho-c-Kit (Tyr721) Rabbit pAb

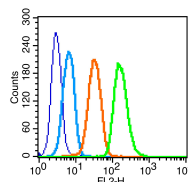
— DATASHEET —

Host: Rabbit Clonality: Polyclonal GeneID: 3815 Target: Phospho-c-Kit (Tyr721) Immunogen: KLH conjugated Synthesised phosphopeptide derived from human c-Kit around the phosphorylation site of Ser721: NE(p-Y)MD. Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. 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.	Isotype: IgG SWISS: P10721	Applications: IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Flow-Cyt (1µg/Test) Reactivity: Human, Mouse (predicted: Rat) Predicted MW.: 105 kDa Subcellular Location: Cell membrane ,Cytoplasm
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— VALIDATION IMAGES —



Paraformaldehyde-fixed, paraffin embedded (human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (c-Kit(Ser721)) Polyclonal Antibody, Unconjugated (bs-5401R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control (blue line): K562 (fixed with 70% ethanol (overnight at 4°C) and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature). Primary Antibody (green line): Rabbit Anti-Phospho-c-Kit(Ser721)antibody (bs-5401R), Dilution: 1µg /10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE, Dilution: 1µg /test.

— SELECTED CITATIONS —

- **[IF=3.2]** Wu BinXi. et al. Development of a Flow Cytometric Panel to Assess Prognostic Biomarkers in Fine Needle Aspirates of Canine Cutaneous or Subcutaneous Mast Cell Tumors. FRONT VET SCI. 2023 Nov;10: FCM ;Dog. 38076567