Product datasheet

Anti-c-Kit/CD117/KIT Antibody

Catalog Number: *PB9258*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-c-Kit/CD117/KIT Antibody
Gene Name	KIT
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB, IHC, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human c-Kit recombinant protein (Position: Q26-S285). Human c-Kit shares 66% amino acid (aa) sequence identity with mouse c-Kit.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	145 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

SCFR(Mast/stem cell growth factor receptor), also known as KIT ONCOGENE or CD117, is a protein that in humans is encoded by the KIT gene. KIT was first described as the cellular homolog of the feline sarcoma viral oncogene v-kit. The KIT gene is mapped on 4q12. Kit was expressed on the surface of germ cells up to the pachytene stage. Signaling from the KIT receptor tyrosine kinase is essential for primordial germ cell growth both in vivo and in vitro. Determination of the KIT effectors acting in primordial germ cells has been hampered by the lack of effective methods to manipulate easily gene expression in these cells.

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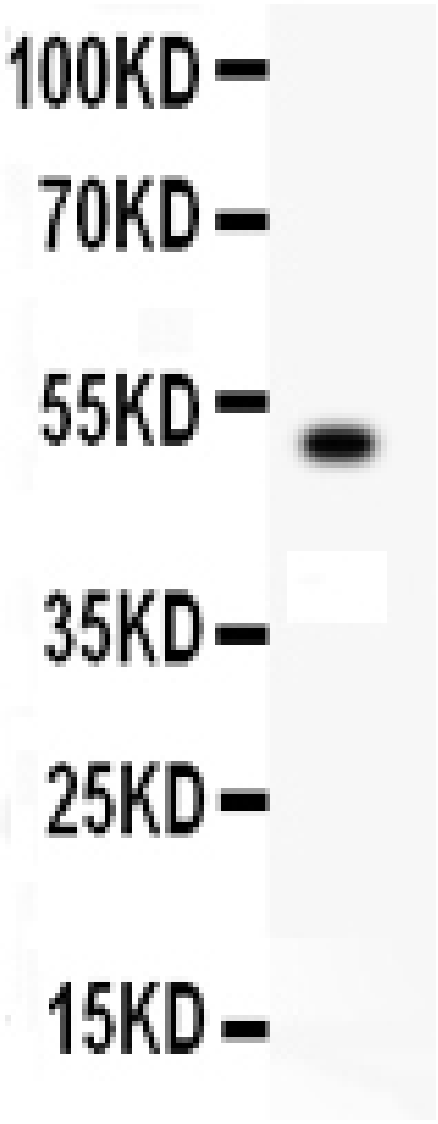
Reference

Anti-c-Kit/CD117/KIT Antibody被引用在4文献中。

Selected Validation Data



Western blot analysis of c-Kit/CD117/KIT using anti-c-Kit/CD117/KIT antibody (PB9258).
Lane 1: recombinant Human C-Kit Protein 0.5ng.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-c-Kit/CD117/KIT antigen affinity purified polyclonal antibody (PB9258) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for c-Kit/CD117/KIT at approximately 145 kDa.

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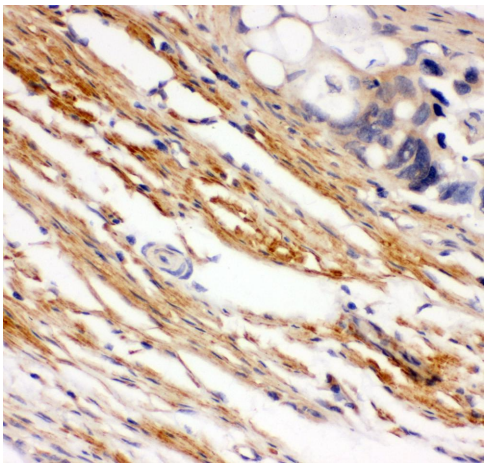
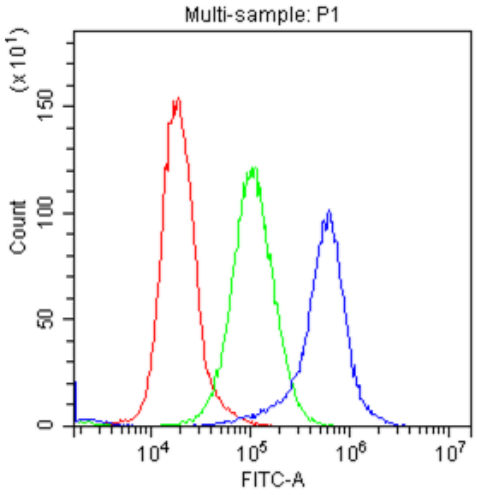


IHC analysis of c-Kit/CD117/KIT using anti-c-Kit/CD117/KIT antibody (PB9258).
c-Kit/CD117/KIT was detected in a paraffin-embedded section of human intestinal cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-c-Kit/CD117/KIT Antibody (PB9258) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



Flow Cytometry analysis of K562 cells using anti-c-Kit/CD117/KIT antibody (PB9258).
Overlay histogram showing K562 cells stained with PB9258 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-c-Kit/CD117/KIT Antibody (PB9258) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.