

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	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse c-Kit/Kit, which shares 88.6% and 94.3% amino acid (aa) sequence identity with human and rat c-Kit/Kit, respectively.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	145 kDa	
Dilution Ratios	Western blot (WB): Immunohistochemistry (IHC): (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.	1:500-2000 1:50-400

Storage

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

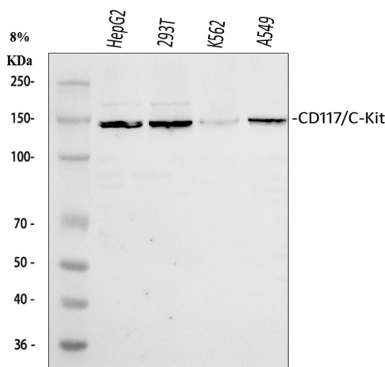
Background Information

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.

Reference

Anti-c-Kit/CD117/KIT Antibody被引用在18文献中。

Selected Validation Data



Western blot analysis of c-Kit/CD117/KIT using anti-c-Kit/CD117/KIT antibody (A01335-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human HepG2 whole cell lysates,

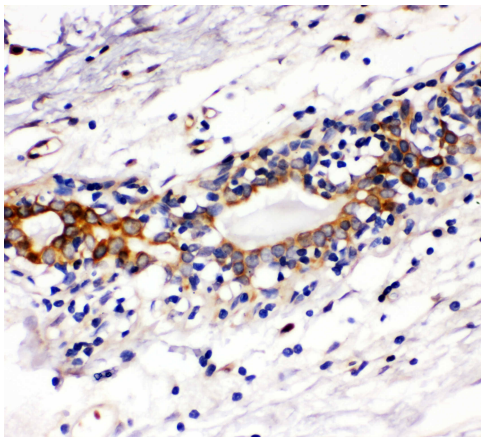
Lane 2: human 293T whole cell lysates,

Lane 3: human K562 whole cell lysates,

Lane 4: human A549 whole cell lysates.

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 (A01335-1) 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. The expected band size for c-Kit/CD117/KIT is at 109 kDa.



IHC analysis of c-Kit/CD117/KIT using anti-c-Kit/CD117/KIT antibody (A01335-1).

c-Kit/CD117/KIT was detected in a paraffin-embedded section of human mammary 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 (A01335-1) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.