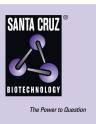
SANTA CRUZ BIOTECHNOLOGY, INC.

c-Kit (C-19): sc-168



BACKGROUND

The c-Kit proto-oncogene is a member of the receptor tyrosine kinase family and, more specifically, is 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. c-Kit regulates a variety of biological responses including chemotaxis, cell proliferation, apoptosis and adhesion. c-Kit is also 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 is encoded at the murine steel (SI) locus. Kit is the human homolog of the protooncogene c-Kit. Mutations in Kit are integral for tumor growth and progression in various cancers.

CHROMOSOMAL LOCATION

Genetic locus: KIT (human) mapping to 4q12; Kit (mouse) mapping to 5 C3.3.

SOURCE

c-Kit (C-19) is available as either rabbit (sc-168) or goat (sc-168-G) affinity purified polyclonal antibody raised against a peptide mapping within the C-terminus of c-Kit of human origin.

PRODUCT

Each vial contains either 100 μg (sc-168) or 200 μg (sc-168-G) lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-168 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as agarose conjugate for immunoprecipitation, sc-168 AC, 500 μ g/0.25 ml agarose in 1 ml.

APPLICATIONS

c-Kit (C-19) is recommended for detection of c-Kit p145 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

c-Kit (C-19) is also recommended for detection of c-Kit p145 in additional species, including canine.

Suitable for use as control antibody for c-Kit siRNA (h): sc-29225, c-Kit siRNA (m): sc-29852, c-Kit shRNA Plasmid (h): sc-29225-SH, c-Kit shRNA Plasmid (m): sc-29852-SH, c-Kit shRNA (h) Lentiviral Particles: sc-29225-V, c-Kit shRNA (m) Lentiviral Particles: sc-29852-V.

Molecular Weight of c-Kit precursor: 120 kDa.

Molecular Weight of mature c-Kit: 145 kDa.

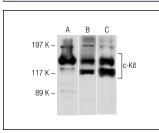
STORAGE

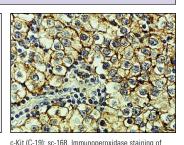
Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

DATA





Bouin's-fixed, paraffin-embedded invasive testicular germ cell tumor tissue showing distinct membrane

staining. Kindly provided by E. Rajpert-De Meyts.

Western blot analysis of c-Kit expression in CCRF-HSB-2 whole cell lysates (A-C). Antibodies tested include c-Kit (C-19): sc-168 (A), c-Kit (C-14): sc-1493 (B) and c-Kit (M-14): sc-1494 (C).

SELECT PRODUCT CITATIONS

- 1. Feng, G.S., et al. 1996. Grap is a novel SH3-SH2-SH3 adaptor protein that couples tyrosine kinases to the Ras pathway. J. Biol. Chem. 271: 12129-12132.
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- 4. Phillips, M.D., et al. 2011. Dkk1 and Dkk2 regulate epicardial specification during mouse heart development. Int. J. Cardiol. 150: 186-192.
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- Pimenta, M.T., et al. 2015. Relaxin affects cell organization and early and late stages of spermatogenesis in a coculture of rat testicular cells. Andrology 3: 772-386.



Try c-Kit (E-3): sc-365504 or c-Kit (Ab 81): sc-13508, our highly recommended monoclonal alternatives to c-Kit (C-19). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see c-Kit (E-3): sc-365504.