SANTA CRUZ BIOTECHNOLOGY, INC.

KIN17 (2490D1a): sc-130027

BACKGROUND

The KIN17 protein binds to bent or curved double-stranded DNA fragments found at illegitimate recombination sites. KIN17 is ubiquitiously expressed, with the highest levels of expression in muscle, heart and testis. Low doses of ionizing radiation increase KIN17 expression in mammalian cells. In keratinocytes, KIN17 expression increases during periods of hyperproliferation. UVC irradiation also increases KIN17 expression when functional XPA and XPC proteins are present. Antisense studies indicate that a decrease in KIN17 correlates with a decrease in cell proliferation and an accumulation of cells in early and mid-S phase. SV40-transformed fibroblasts overexpress KIN17, which interacts with large T antigen and reduces T antigen-dependent DNA replication. The gene encoding human KIN17 maps to chromosome 10p14.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: KIN (human) mapping to 10p14.

RESEARCH USE

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

SOURCE

KIN17 (2490D1a) is a mouse monoclonal antibody raised against a recombinant protein corresponding to an internal region of KIN17 of human origin.

PRODUCT

Each vial contains 100 µg IgG_1 in 1.0 ml PBS with < 0.1% sodium azide and 0.1% BSA.

APPLICATIONS

KIN17 (2490D1a) is recommended for detection of KIN17 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

Suitable for use as control antibody for KIN17 siRNA (h): sc-45958, KIN17 shRNA Plasmid (h): sc-45958-SH and KIN17 shRNA (h) Lentiviral Particles: sc-45958-V.

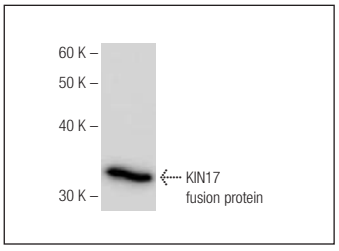
Molecular Weight of KIN17: 45 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, RKO whole cell lysate or HCT 116 whole cell lysate.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



KIN17 (2490D1a): sc-130027. Western blot analysis of human recombinant KIN17 fusion protein.

STORAGE

For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.