SANTA CRUZ BIOTECHNOLOGY, INC.

XXYLT1 (T-16): sc-99291

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

C3orf21 (chromosome 3 open reading frame 21), also known as FLJ35155, is a 393 amino acid single-pass membrane protein that exists as 3 alternatively spliced isoforms. C3orf21 is encoded by a gene that maps to human chromosome 3q29. Chromosome 3 is made up of approximately 214 million bases encoding over 1,100 genes. Notably, there is a chemokine receptor gene cluster and a variety of human cancer related loci on chromosome 3. Particular regions of the chromosome 3 short arm are deleted in many types of cancer cells. Key tumor suppressing genes on chromosome 3 encode apoptosis medi-ator RASSF1, cell migration regulator HYAL1 and angiogenesis suppressor SEMA3B. Marfan syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth disease are a few of the numerous genetic diseases associated with chromosome 3.

CHROMOSOMAL LOCATION

Genetic locus: XXYLT1 (human) mapping to 3q29; AI480653 (mouse) mapping to 16 B2.

SOURCE

XXYLT1 (T-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of XXYLT1 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-99291 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

XXYLT1 (T-16) is recommended for detection of XXYLT1 of human origin, AI480653 of mouse origin and the corresponding rat homolog 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

XXYLT1 (T-16) is also recommended for detection of XXYLT1 in additional species, including equine and canine.

Suitable for use as control antibody for XXYLT1 siRNA (h): sc-77889, AI480653 siRNA (m): sc-140941, XXYLT1 shRNA Plasmid (h): sc-77889-SH, AI480653 shRNA Plasmid (m): sc-140941-SH, XXYLT1 shRNA (h) Lentiviral Particles: sc-77889-V and AI480653 shRNA (m) Lentiviral Particles: sc-140941-V.

Molecular Weight of XXYLT1 isoform 1: 44 kDa.

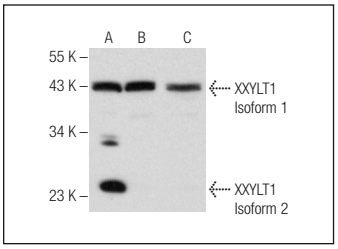
Molecular Weight of XXYLT1 isoform 2: 22 kDa.

Positive Controls: U-87 MG cell lysate: sc-2411, A549 cell lysate: sc-2413 or MCF7 whole cell lysate: sc-2206.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



XXYLT1 (T-16): sc-99291. Western blot analysis of XXYLT1 expression in U-87 MG (**A**), A549 (**B**) and MCF7 (**C**) whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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