SANTA CRUZ BIOTECHNOLOGY, INC.

TEX9 (D-2): sc-398987

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

TEX9 (testis-expressed sequence 9 protein) is a 391 amino acid protein. The gene that encodes TEX9 contains roughly 80,448 bases and maps to human chromosome 15q21.3. Housing approximately 106 million base pairs and encoding more than 700 genes, chromosome 15 makes up about 3% of the human genome. Angelman and Prader-Willi syndromes are associated with loss of function or deletion of genes in the 15q11-q13 region. In the case of Angelman syndrome, this loss is due to inactivity of the maternal 15q11-q13 encoded UBE3A gene in the brain by either chromosomal deletion or mutation. In cases of Prader-Willi syndrome, there is a partial or complete deletion of this region from the paternal copy of chromosome 15. Tay-Sachs disease is a lethal disorder associated with mutations of the HEXA gene, which is encoded by chromosome 15. Marfan syndrome is associated with chromosome 15 through the FBN1 gene.

REFERENCES

1. Knoll, J.H., et al. 1989. Angelman and Prader-Willi syndromes share a common chromosome 15 deletion but differ in parental origin of the deletion. Am. J. Med. Genet. 32: 285-290.
2. Hurowitz, G.I., et al. 1993. Neuropsychiatric aspects of adult-onset Tay-Sachs disease: two case reports with several new findings. J. Neuropsychiatry Clin. Neurosci. 5: 30-36.
3. Boer, H., et al. 2002. Psychotic illness in people with Prader Willi syndrome due to chromosome 15 maternal uniparental disomy. Lancet 359: 135-136.
4. Midla, G.S. 2008. Diagnosis and management of patients with Marfan syndrome. JAAPA 21: 21-25.

CHROMOSOMAL LOCATION

Genetic locus: TEX9 (human) mapping to 15q21.3; Tex9 (mouse) mapping to 9 D.

SOURCE

TEX9 (D-2) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 287-309 within an internal region of TEX9 of human origin.

PRODUCT

Each vial contains 200 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

TEX9 (D-2) is available conjugated to agarose (sc-398987 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-398987 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-398987 PE), fluorescein (sc-398987 FITC), Alexa Fluor® 488 (sc-398987 AF488), Alexa Fluor® 546 (sc-398987 AF546), Alexa Fluor® 594 (sc-398987 AF594) or Alexa Fluor® 647 (sc-398987 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-398987 AF680) or Alexa Fluor® 790 (sc-398987 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-398987 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

TEX9 (D-2) is recommended for detection of TEX9 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for TEX9 siRNA (h): sc-90152, TEX9 siRNA (m): sc-154227, TEX9 shRNA Plasmid (h): sc-90152-SH, TEX9 shRNA Plasmid (m): sc-154227-SH, TEX9 shRNA (h) Lentiviral Particles: sc-90152-V and TEX9 shRNA (m) Lentiviral Particles: sc-154227-V.

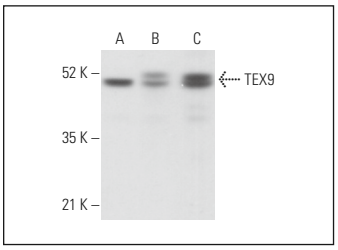
Molecular Weight of TEX9: 45 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, K-562 whole cell lysate: sc-2203 or TEX9 (h): 293T Lysate: sc-114728.

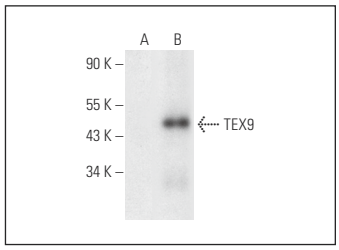
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



TEX9 (D-2): sc-398987. Western blot analysis of TEX9 expression in K-562 (**A**), Jurkat (**B**) and KNRK (**C**) whole cell lysates.



TEX9 (D-2): sc-398987. Western blot analysis of TEX9 expression in non-transfected: sc-117752 (**A**) and human TEX9 transfected: sc-114728 (**B**) 293T whole cell lysates.

STORAGE

Store at 4° C, **DO 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.