

# TEX10 (B-9): sc-398384

## BACKGROUND

TEX10 (testis expressed 10), also known as L18 or Nbla10363, is a 929 amino acid multi-pass membrane protein that localizes to the nucleus and contains one HEAT repeat. The gene encoding TEX10 maps to human chromosome 9. Chromosome 9 contains 145 million base pairs and comprises 4% of the human genome, encoding nearly 900 genes. Hereditary hemorrhagic telangiectasia and Familial dysautonomia are both associated with chromosome 9. Notably, chromosome 9 encompasses the largest interferon family gene cluster. Chromosome 9 is partnered with chromosome 22 in translocations that lead to the aberrant production of a Bcr-Abl fusion protein often found in leukemias.

## REFERENCES

- Humphray, S.J., et al. 2004. DNA sequence and analysis of human chromosome 9. *Nature* 429: 369-374.
- Coppo, P., et al. 2006. Bcr-Abl activates STAT3 via JAK and MEK pathways in human cells. *Br. J. Haematol.* 134: 171-179.
- Zheng, X., et al. 2006. Bcr and its mutants, the reciprocal t(9;22)-associated Abl/Bcr fusion proteins, differentially regulate the cytoskeleton and cell motility. *BMC Cancer* 6: 262.
- Burmeister, T., et al. 2007. Atypical Bcr-Abl mRNA transcripts in adult acute lymphoblastic leukemia. *Haematologica* 92: 1699-1702.
- Cottin, V., et al. 2007. Pulmonary vascular manifestations of hereditary hemorrhagic telangiectasia (Rendu-Osler disease). *Respiration* 74: 361-378.
- Fernandez-L, A., et al. 2007. Gene expression fingerprinting for human hereditary hemorrhagic telangiectasia. *Hum. Mol. Genet.* 16: 1515-1533.

## CHROMOSOMAL LOCATION

Genetic locus: TEX10 (human) mapping to 9q31.1; Tex10 (mouse) mapping to 4 B1.

## SOURCE

TEX10 (B-9) is a mouse monoclonal antibody raised against amino acids 23-322 mapping near the N-terminus of TEX10 of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

TEX10 (B-9) is available conjugated to agarose (sc-398384 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-398384 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-398384 PE), fluorescein (sc-398384 FITC), Alexa Fluor® 488 (sc-398384 AF488), Alexa Fluor® 546 (sc-398384 AF546), Alexa Fluor® 594 (sc-398384 AF594) or Alexa Fluor® 647 (sc-398384 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-398384 AF680) or Alexa Fluor® 790 (sc-398384 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

## RESEARCH USE

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

## APPLICATIONS

TEX10 (B-9) is recommended for detection of TEX10 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 TEX10 siRNA (h): sc-92520, TEX10 siRNA (m): sc-154208, TEX10 shRNA Plasmid (h): sc-92520-SH, TEX10 shRNA Plasmid (m): sc-154208-SH, TEX10 shRNA (h) Lentiviral Particles: sc-92520-V and TEX10 shRNA (m) Lentiviral Particles: sc-154208-V.

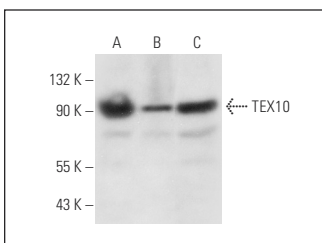
Molecular Weight of TEX10: 106 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, IMR-32 nuclear extract: sc-2148 or HeLa nuclear extract: sc-2120.

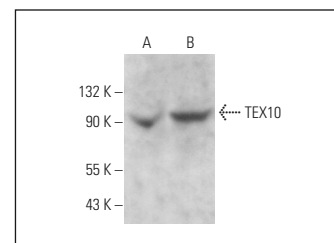
## RECOMMENDED SUPPORT REAGENTS

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



TEX10 (B-9): sc-398384. Western blot analysis of TEX10 expression in IMR-32 (A) and HeLa (B) nuclear extracts and HeLa whole cell lysate (C).



TEX10 (B-9): sc-398384. Western blot analysis of TEX10 expression in IMR-32 (A) and C6 (B) whole cell lysates.

## SELECT PRODUCT CITATIONS

- Qu, Z. and D'Mello, S.R. 2018. Proteomic analysis identifies NPTX1 and HIP1R as potential targets of histone deacetylase-3-mediated neurodegeneration. *Exp. Biol. Med.* 243: 627-638.

## STORAGE

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

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