



Stra8 (526CT11.1.5): sc-517364

BACKGROUND

Human Stra8 (stimulated by retinoic acid gene 8) is a 338 amino acid cytoplasmic protein that shares 55% sequence identity with its mouse counterpart and is activated by retinoic acid (RA). Expressed specifically in testis and in embryonic ovaries, Stra8 is required for premeiotic DNA replication in both male and female germ cells, an event that is necessary for proper transition into meiosis and for subsequent events in meiotic prophase. Spermatocytes that lack Stra8 activity initiate, but fail to complete meiosis, thus resulting in premature chromosome condensation. The gene encoding human Stra8 maps to chromosome 7, which houses over 1,000 genes and comprises nearly 5% of the human genome. Defects in some of the genes localized to chromosome 7 have been linked to Osteogenesis imperfecta, Williams-Beuren syndrome, Pendred syndrome, Lissencephaly, Citrullinemia and Shwachman-Diamond syndrome.

REFERENCES

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4. Koubova, J., et al. 2006. Retinoic acid regulates sex-specific timing of meiotic initiation in mice. *Proc. Natl. Acad. Sci. USA* 103: 2474-2479.
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CHROMOSOMAL LOCATION

Genetic locus: STRA8 (human) mapping to 7q33; Stra8 (mouse) mapping to 6 B1.

RESEARCH USE

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

SOURCE

Stra8 (526CT11.1.5) is a mouse monoclonal antibody raised against a synthetic peptide corresponding to amino acids 31-59 of Stra8 of human origin.

PRODUCT

Each vial contains 50 µl ascites containing IgM with < 0.1% sodium azide.

APPLICATIONS

Stra8 (526CT11.1.5) is recommended for detection of Stra8 of mouse, rat and human origin by Western Blotting (starting dilution: to be determined by researcher, dilution range 1:100-1:5000).

Suitable for use as control antibody for Stra8 siRNA (h): sc-89798, Stra8 siRNA (m): sc-153910, Stra8 shRNA Plasmid (h): sc-89798-SH, Stra8 shRNA Plasmid (m): sc-153910-SH, Stra8 shRNA (h) Lentiviral Particles: sc-89798-V and Stra8 shRNA (m) Lentiviral Particles: sc-153910-V.

Molecular Weight of Stra8: 37 kDa.

SELECT PRODUCT CITATIONS

1. Cordero, P., et al. 2021. Overexpression of DAZL, STRA8, and BOULE genes and treatment with BMP4 or retinoic acid modulate the expression of MSC overexpressing germ cell genes. *Front. Vet. Sci.* 8: 667547.

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 for detailed protocols and support products.