SANTA CRUZ BIOTECHNOLOGY, INC.

Chx10 (m3): 293T Lysate: sc-119258

BACKGROUND

Chx10, for ceh-10 homeodomain containing homolog, is also known as RET1 and HOX10 and is closely related to the homeodomain of the homeobox gene ceh-10 from the nematode *Caenorhabditis elegans*. Chx10 is an essential component in the network of genes required for the development of the mammalian eye, with profound effects on retinal progenitor proliferation and bipolar cell specification or differentiation. Chx10 is expressed in the early retinal neuroepithelium, is restricted to bipolar cells and is maintained at a low level in bipolar cells of the mature retina. Human CHX10 is also expressed in the inner nuclear layer of the mature retina. Expression patterns implicate critical roles in the formation of the neuroretina and in the development and maintenance of the inner nuclear layer. Chx10 is expressed at high levels in uncommitted retinal progenitor cells and mature bipolar cells.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Vsx2 (mouse) mapping to 12 D1.

PRODUCT

Chx10 (m3): 293T Lysate represents a lysate of mouse Chx10 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

Chx10 (m3): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Chx10 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RESEARCH USE

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

PROTOCOLS

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