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Lieferung & Zahlungsart

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- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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SANTA CRUZ BIOTECHNOLOGY, INC.

Pax-9 (h): 293T Lysate: sc-176045

BACKGROUND

Pax genes contain paired domains with strong homology to genes in *Drosophila* which are involved in programming early development. Pax-9, a member of the paired box-containing gene family, is closely related in its paired do-main to Pax-1. The Pax-9 gene encodes the highly conserved paired domain and the gene is a member of the same subgroup as Pax-1/undulated. Pax-9 is essential for the development of a variety of organs and skeletal elements. Mutations in either the Pax-1 or the Pax-9 genes may produce an inherited skeletal disorder such as the Jarcho-Levin syndrome or other forms of spondylocostal dysplasia, conditions resembling "undulated" in the mouse. A frameshift mutation within the paired domain of Pax-9 was identified in a family segregating autosomal dominant oligodontia whose members had normal primary dentition but lacked most permanent molars. In addition to lack of permanent molars, some individuals also lacked maxillary and/or mandibular second premolars, as well as mandibular central incisors. The gene which encodes Pax-9 maps to human chromosome 14q13.3.

REFERENCES

1. Stapleton, P., et al. 1993. Chromosomal localization of seven Pax genes and cloning of a novel family member, Pax-9. Nat. Genet. 3: 292-298.
2. Wallin, J., et al. 1993. A new Pax gene, Pax-9, maps to mouse chromosome 12. Mamm. Genome 4: 354-358.
3. Peters, H., et al. 1998. Pax-9-deficient mice lack pharyngeal pouch derivatives and teeth and exhibit craniofacial and limb abnormalities. Genes Dev. 12: 2735-2747.
4. LeClair, E.E., et al. 1999. Expression of the paired-box genes Pax-1 and Pax-9 in limb skeleton development. Dev. Dyn. 214: 101-115.
5. Stockton, D.W., et al. 2000. Mutation of Pax-9 is associated with oligodontia. Nat. Genet. 24: 18-19.
7. Peres, R.C., et al. 2005. Association between Pax-9 promoter polymorphisms and hypodontia in humans. Arch. Oral Biol. 50: 861-871.
8. Kriangkrai, R., et al. 2006. Dual odontogenic origins develop at the early stage of rat maxillary incisor development. Anat. Embryol. 211:101-108.
9. Devos, D., et al. 2006. New syndromic form of benign hereditary chorea is associated with a deletion of TITF-1 and Pax-9 contiguous genes. Mov. Disord. 21: 2237-2240.

CHROMOSOMAL LOCATION

Genetic locus: PAX9 (human) mapping to 14q13.3.

PRODUCT

Pax-9 (h): 293T Lysate represents a lysate of human Pax-9 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.

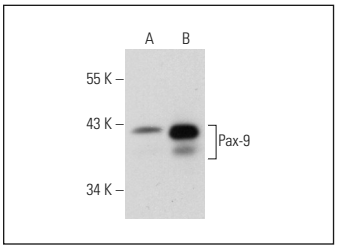
APPLICATIONS

Pax-9 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Pax-9 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.

Pax-9 (7C2): sc-56823 is recommended as a positive control antibody for Western Blot analysis of enhanced human Pax-9 expression in Pax-9 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



Pax-9 (7C2): sc-56823. Western blot analysis of Pax-9 expression in non-transfected: sc-117752 (**A**) and human Pax-9 transfected: sc-176045 (**B**) 293T whole cell lysates.

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.