

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
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chx 10 (Visual system homeobox 2) (CT) . Sheep Polyclonal Antibody Ceh-10 homeodomain-containing homolog

BACKGROUND

Chx10 is a 46kDa homeodomain protein of the paired-like class that is essential for development of the mammalian eye. Mutations in Chx10 cause microphthalmia, a cause of congenital blindness in humans, and the ocular retardation (or) phenotype in mice. In the developing mouse retina Chx10 is expressed in retinal progenitors, while in the mature retina, Chx10 expression becomes restricted to bipolar neurons. Concurrent with these expression patterns, the Chx10-/- (or) retina is thin due to a defect in proliferation of retinal progenitors, and lacks bipolar neurons. Chx10 is also expressed in the developing brainstem, thalamus, and spinal cord.

ORDERING INFORMATION

CATALOG NUMBER

X1179P

SIZE

250 μg **F**ORM

FORM

Unconjugated

HOST/CLONE

Sheep

FORMULATION

Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION

See vial for concentration

ISOTYPE

lgG

APPLICATIONS

Western Blot, Immunohistochemistry (Frozen Sections)

SPECIES REACTIVITY

Human, Mouse, Rat, Chicken

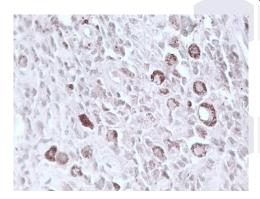
ACCESSION NUMBER

Human P58304

IMMUNOGEN

Antibody raised against a recombinant protein corresponding to amino acids 264 to 361 derived from the C terminal of the human Chx10 protein conjugated to KLH.

Immunohistochemical staining of human melanoma tumor tissue using chx10 (CT) antibody (Cat. No. X1179P). Antibody used at ~20 μ g/ml.





Positive Control/Tissue Expression

Rat or mouse retinal tissue lysate. Suitable for use against recombinant proteins conjugated to OVA, GST, His tags and other.

COMMENTS

Detects Chx10 by Western blot at 0.5 to 1 μ g/ml. Detects a 46 kDa band in mouse and rat retinal tissue lysates. Optimal concentration should be evaluated by serial dilutions. Suitable for use against recombinant proteins conjugated to OVA, GST, His tags and other.

PURIFICATION

Ammonium Sulfate Precipitation

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

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- 3. Ferda Percin, E., et al. Human microphthalmia associated with mutations in the retinal homeobox gene CHX10. Nat. Genet. 2000, 25, 397-401
- 4. Nittner, D., et al. Synthetic lethality between Rb, p53 and Dicer or miR-17–92 in retinal progenitors suppresses retinoblastoma formation. Nature Cell Biology (2012), 14, 958-965
- 5. Kay, J.N., et al. Neurod6 expression defines new retinal amacrine cell subtypes and regulates their fate. Nature Neuroscience (2011), 14, 965-972
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PRODUCT SPECIFIC REFERENCES

- 1. Qiu, F., et al, 'A Comprehensive Negative Regulatory Program Controlled by Brn3b to Ensure Ganglion Cell Specification from Multipotential Retinal Precursors' Journal of Neuroscience 2008, 28, , 3392-3403
- 2. Elshatory, Y., et a, 'Islet-1 Controls the Differentiation of Retinal Bipolar and Cholinergic Amacrine Cells' Journal of Neuroscience 2007, 27, , 12707-12720
- 3. Osakada, F., et al, 'Wnt Signaling Promotes Regeneration in the Retina of Adult Mammals' Journal of Neuroscience 2007, 27, , 4210-4219
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