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Datasheet for ABIN265011
anti-VSX2 antibody (N-Term)

1 Image

11 Publications

Overview

Quantity:	0.25 mg
Target:	VSX2
Binding Specificity:	AA 1-131, N-Term
Reactivity:	Mouse, Rat
Host:	Sheep
Clonality:	Polyclonal
Conjugate:	This VSX2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	Antibody raised against a recombinant protein corresponding to amino acids 1 to 131 derived from the N terminal of the human Chx10 protein conjugated to GST.
Isotype:	IgG
Specificity:	This antibody recognizes chx 10 (N-Term).
Purification:	Purified

Target Details

Target:	VSX2
Alternative Name:	VSX2 / CHX10 (VSX2 Products)
Background:	Chx10 is a 46 kDa homeodomain protein of the paired-like class that is essential for

Target Details

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. Synonyms: Ceh-10 homeodomain-containing homolog, HOX10, Homeobox protein CHX10, Visual system homeobox 2

Molecular Weight: 46 kDa

Gene ID: 12677

NCBI Accession: [NP_031727](#)

UniProt: [Q61412](#)

Pathways: [Dopaminergic Neurogenesis](#)

Application Details

Application Notes: Western Blot: 0.5-1.0 mg/mL. Detects a 46 kDa band in mouse and rat retinal tissue lysates.
Immunohistochemistry on Frozen Sections.
Other applications not tested.
Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

Handling

Buffer: PBS containing 0.08 % Sodium Azide as preservative

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: -20 °C

Storage Comment: Store the antibody (in aliquots) at -20 °C. Can be shipped at ambient temperature.

Publications

Product cited in:

Bai, Kiyama, Li, Wang: "Birth of cone bipolar cells, but not rod bipolar cells, is associated with existing RGCs." in: **PLoS ONE**, Vol. 9, Issue 1, pp. e83686, (2014) ([PubMed](#)).

Haynes, Luz-Madrigal, Reis, Echeverri Ruiz, Grajales-Esquivel, Tzekou, Tsonis, Lambris, Del Rio-Tsonis: "Complement anaphylatoxin C3a is a potent inducer of embryonic chick retina regeneration." in: **Nature communications**, Vol. 4, pp. 2312, (2013) ([PubMed](#)).

Tiwari, Hudson, Gattone, Miller, Chernoff, Belecky-Adams: "Meckelin 3 is necessary for photoreceptor outer segment development in rat Meckel syndrome." in: **PLoS ONE**, Vol. 8, Issue 3, pp. e59306, (2013) ([PubMed](#)).

Luo, Jin, Xie, Qiu, Li, Zou, Cai, Hozumi, Shima, Xiang: "Forkhead box N4 (Foxn4) activates Dll4-Notch signaling to suppress photoreceptor cell fates of early retinal progenitors." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 109, Issue 9, pp. E553-62, (2012) ([PubMed](#)).

Sherry, Kanan, Hamilton, Hoffhines, Arbogast, Fliesler, Naash, Moore, Al-Ubaidi: "Differential developmental deficits in retinal function in the absence of either protein tyrosine sulfotransferase-1 or -2." in: **PLoS ONE**, Vol. 7, Issue 6, pp. e39702, (2012) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

Images

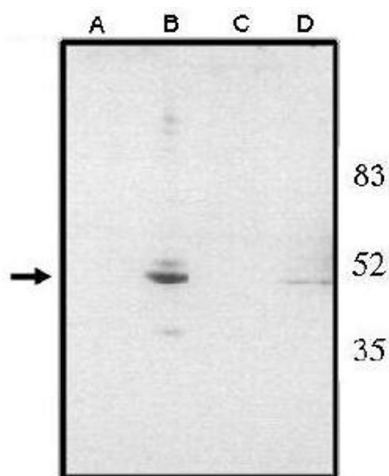


Image 1.