Datasheet for ABIN265010

anti-VSX2 antibody (C-Term)

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Overview

Quantity:	0.25 mg
Target:	VSX2
Binding Specificity:	AA 264-361, C-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 264 to 361 derived from the C terminal of the human Chx10 protein conjugated to GST.
Isotype:	IgG
Specificity:	This antibody recognizes chx 10 (C-Term). Other species not tested.
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

Concentration:	1 mg/mL
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:

Xie, Dolder, Siegrist, Wetterwald, Hofstetter: "Glutamate Receptor Agonists and Glutamate Transporter Antagonists Regulate Differentiation of Osteoblast Lineage Cells." in: **Calcified tissue international**, Vol. 99, Issue 2, pp. 142-54, (2018) (PubMed).

Schminke, Frese, Bode, Goldring, Miosge: "Laminins and Nidogens in the Pericellular Matrix of Chondrocytes: Their Role in Osteoarthritis and Chondrogenic Differentiation." in: **The American journal of pathology**, Vol. 186, Issue 2, pp. 410-8, (2016) (PubMed).

Chen, Yang, Huang, Pan, Liu, Qiu: "Angiotensin-(1-7) attenuates lung fibrosis by way of Mas receptor in acute lung injury." in: **The Journal of surgical research**, Vol. 185, Issue 2, pp. 740-7, (2013) (PubMed).

Xie, Li, Wang, Zhang, Peng, Yang, Zou, Ge, Chen, Chen: "In vivo delivery of adenoviral vector containing interleukin-17 receptor a reduces cardiac remodeling and improves myocardial function in viral myocarditis leading to dilated cardiomyopathy." in: **PLoS ONE**, Vol. 8, Issue 8, pp. e72158, (2013) (PubMed).

Zhang, Shen, Zhang, Wan, Yao, Wu, Wang, Chen, Yan, Jiang: "Induction of thoracic aortic remodeling by endothelial-specific deletion of microRNA-21 in mice." in: **PLoS ONE**, Vol. 8, Issue 3, pp. e59002, (2013) (PubMed).

Images

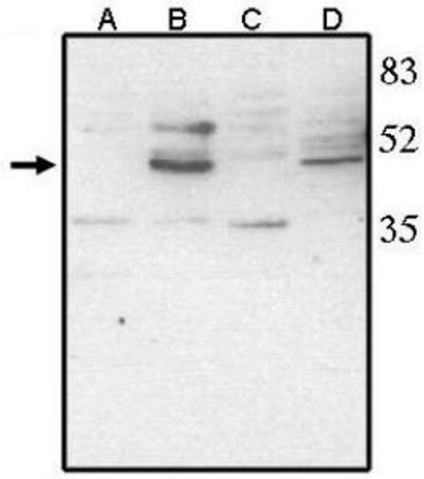

Image 1.