10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

VSX1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16277c

Specification

VSX1 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q9NZR4
Other Accession	NP_055403.2, NP_955457.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**38431**
Antigen Region	**125-154**

VSX1 Antibody (Center) - Additional Information

Gene ID 30813

Other Names
Visual system homeobox 1, Homeodomain protein RINX, Retinal inner nuclear layer homeobox protein, Transcription factor VSX1, VSX1, RINX

Target/Specificity
This VSX1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 125-154 amino acids from the Central region of human VSX1.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
VSX1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

VSX1 Antibody (Center) - Protein Information

Name VSX1

Synonyms RINX

Function Binds to the 37-bp core of the locus control region (LCR) of the red/green visual pigment gene cluster (PubMed:10903837). May regulate the activity of the LCR and the cone opsin genes at earlier stages of development (PubMed:10903837). Dispensable in early retinal development (By similarity).

Cellular Location
Nucleus {ECO:0000250|UniProtKB:Q91V10}.

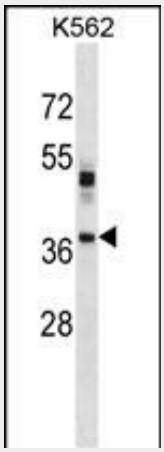
Tissue Location
In the adult eye, expressed in lens, iris, ciliary body, choroid, optical nerve head and, most strongly, in retina, but not expressed in sclera and cornea. According to PubMed:11978762, expressed in adult retina but not in lens and cornea. Within adult retina, found exclusively in the inner nuclear layer. Isoform 1, isoform 2, isoform 3 and isoform 4 expressed in adult retina, but not in brain, heart, kidney, liver, lung, pancreas, placenta and skeletal muscle. Not expressed in thymus and spleen. Expressed in embryonic craniofacial tissue. Expressed in fetal (week 14) retina. Strongly expressed in neonatal retina, weakly in neonatal lens, choroid and cornea (day 1, 4; month 9).

VSX1 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

VSX1 Antibody (Center) - Images



VSX1 Antibody (Center) (Cat. #AP16277c) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the VSX1 antibody detected the VSX1 protein (arrow).

VSX1 Antibody (Center) - Background

VSX1 contains a paired-like homeodomain and binds to the core of the locus control region of the red/green visual pigment gene cluster. The encoded protein may regulate expression of the cone opsin genes early in development. Mutations in this gene can cause posterior polymorphous corneal dystrophy and keratoconus.

VSX1 Antibody (Center) - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Dash, D.P., et al. Eye (Lond) 24(6):1085-1092(2010)
Stabuc-Silih, M., et al. Cornea 29(2):172-176(2010)
Stabuc-Silih, M., et al. Acta Dermatovenerol Alp Panonica Adriat 19(2):3-10(2010)
Paliwal, P., et al. Mol. Vis. 15, 2475-2479 (2009) :