

VSX1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16277c**Specification**

VSX1 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	O9NZR4
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

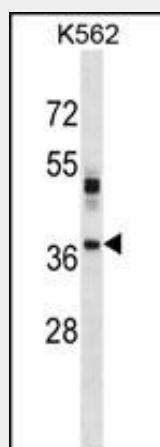
In the adult eye, expressed in lens, iris, ciliary body, choroid, optical nerve head and, most strongly, in retina, but not expressed in sclera and cornea. According to PubMed:11978762, expressed in adult retina but not in lens and cornea. Within adult retina, found exclusively in the inner nuclear layer. 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 Cytometry](#)
- [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) :