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

VSX1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP16277c

Specification

VSX1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q9NZR4

VSX1 Antibody (Center) Blocking Peptide - 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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

VSX1 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- Blocking Peptides

VSX1 Antibody (Center) Blocking Peptide - Images

VSX1 Antibody (Center) Blocking Peptide - Background

VSX1 contains a paired-likehomeodomain and binds to the core of the locus control region ofthe red/green visual pigment gene cluster. The encoded protein mayregulate expression of the cone opsin genes early in development.Mutations in this gene can cause posterior polymorphous cornealdystrophy and keratoconus.

VSX1 Antibody (Center) Blocking Peptide - 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) :