abcam

Product datasheet

Anti-VSX1 antibody ab86962

1 Image

Overview

Product name	Anti-VSX1 antibody
Description	Rabbit polyclonal to VSX1
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide: SPENGLEDVA IDLSSSARQE TKKVHPGAGA QGGSNSTALE GPQPGKVGAT , corresponding to internal sequence amino acids 316-365 of Human VSX1 (NP_055403) Run BLAST with ExPASy Run BLAST with NCBI
Positive control	721_B cell lysate

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: PBS, 2% Sucrose
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab86962 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes

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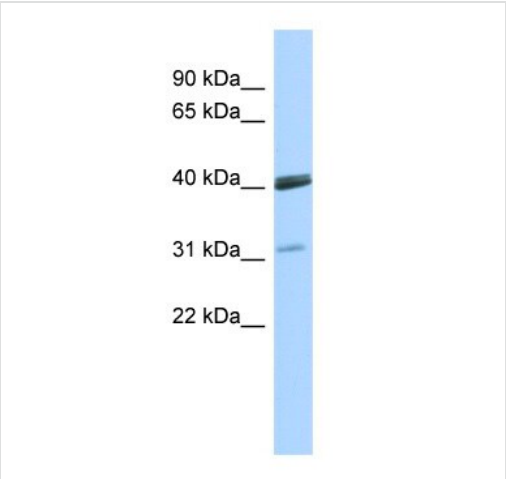
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 32, 40 kDa (predicted molecular weight: 40 kDa). Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.

Target

Function	Binds to the 37-bp core of the locus control region (LCR) of the red/green visual pigment gene cluster. May regulate the activity of the LCR and the cone opsin genes at earlier stages of development.
Tissue specificity	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 (day 0), weakly in neonatal lens (day 0), choroid (day 0) and cornea (day 0, 4; month 9).
Involvement in disease	Defects in VSX1 are a cause of posterior polymorphous corneal dystrophy type 1 (PPCD1) [MIM:122000]. PPCD1 is a slowly progressive hereditary disorder of the corneal endothelium that leads to a variable degree of visual impairment usually in adulthood. Defects in VSX1 are a cause of keratoconus type 1 (KTCN1) [MIM:148300]. Keratoconus type 1 is a frequent corneal dystrophy with an incidence that varies from 50 to 230 per 100'000. The cornea assumes a conical shape as a result of a progressive non-inflammatory thinning of the corneal stroma. Keratoconus is most often an isolated sporadic condition with cases of autosomal dominant and autosomal recessive transmission.
Sequence similarities	Belongs to the paired homeobox family. Contains 1 CVC domain. Contains 1 homeobox DNA-binding domain.
Cellular localization	Nucleus.

Images



Western blot - Anti-VSX1 antibody (ab86962)

Anti-VSX1 antibody (ab86962) at 1 µg/ml + 721_B cell lysate at 10 µg

Secondary

HRP conjugated anti-Rabbit IgG at 1/50000 dilution

Predicted band size: 40 kDa

Observed band size: 40 kDa

Additional bands at: 32 kDa. We are unsure as to the identity of these extra bands.

Gel concentration 12%

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