



Rabbit Anti-VAX2 antibody

SL11497R

Product Name:	VAX2
Chinese Name:	视神经视网膜相关蛋白VAX2抗体
Alias:	DRES93; Ventral anterior homeobox 2; VAX2_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Cow,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	31kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human VAX2:131-205/290
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	VAX2 is a 290 amino acid homeobox protein that plays a crucial role in development of the eye, particularly in the specification of the ventral optic vesicle and in establishment of a correct dorsoventral pattern. VAX2 acts as a transcription factor with VAX1 to cooperatively regulate retinal differentiation, neuroepithelial cell proliferation and axial polarization in the retina. Together, VAX1 and VAX2 repress transcription of Pax-6, a strong inducer of retinal development. VAX1 and VAX2 localize to the nucleus and contain one homeobox DNA-binding domain each.

Function:

VAX2 belongs to the EMX homeobox family and contains 1 homeobox DNA-binding domain. VAX2 gene has high sequence similarity to VAX1 gene and is almost exclusively expressed in the ventral portion of the retina during development. It may play an important role in morphogenetic processes underlying the correct development of the eye, particularly in the establishment of a correct dorsoventral pattern and may be a regulator of axial polarization in the retina.

Subcellular Location:

Nuclear

Similarity:

Belongs to the EMX homeobox family.
Contains 1 homeobox DNA-binding domain.

SWISS:

Q9UIW0

Gene ID:

25806

Database links:

[Entrez Gene: 25806](#)Human

[Entrez Gene: 24113](#)Mouse

[GenBank: NP_036608.1](#)Human

[Omim: 604295](#)Human

[SwissProt: Q9UIW0](#)Human

[SwissProt: Q9WTP9](#)Mouse

[Unigene:](#)Human

[Unigene: 249170](#)Human

[Unigene: 307165](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.