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Rabbit Anti-CERKL antibody

SL6873R

Product Name:	CERKL
Chinese Name:	视网膜色素变性蛋白26抗体
Alias:	Ceramide kinase like protein; Ceramide kinase-like protein; CERKL; CERKL_HUMAN; Retinitis pigmentosa 26 (autosomal recessive); RP26.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=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:	61kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CAMK1D:65-160/558
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:	This gene was initially identified as a locus (RP26) associated with an autosomal recessive form of retinitis pigmentosa (arRP) disease. This gene encodes a protein with ceramide kinase-like domains, however, the protein does not phosphorylate ceramide and its target substrate is currently unknown. This protein may be a negative regulator of apoptosis in photoreceptor cells. Mutations in this gene cause a form of retinitis pigmentosa characterized by autosomal recessive cone and rod dystrophy (arCRD).

Alternative splicing of this gene results in multiple transcript variants encoding different isoforms and non-coding transcripts.[provided by RefSeq, May 2010].

Function:
Has no detectable ceramide-kinase activity. Overexpression of CERKL protects cells from apoptosis in oxidative stress conditions.

Subcellular Location:
Cytoplasm. Nucleus, nucleolus. Note=Enriched in nucleoli. May shuttle between nucleus and cytoplasm. Isoform 5 is not enriched in the nucleoli. Isoform 2: Cytoplasm. Nucleus, nucleolus. Golgi apparatus, trans-Golgi network. Endoplasmic reticulum.

Tissue Specificity:
Isoform 1 and isoform 2 are expressed in adult retina, liver and pancreas as well as in fetal brain, lung and kidney. Isoform 3 is expressed in adult retina as well as in fetal lung and liver. Isoform 4 is expressed in adult retina, lung and kidney as well as in fetal lung and liver. Moderately expressed in retina, kidney, lung, testis, trachea, and pancreas. Weakly expressed in brain, placenta and liver.

Post-translational modifications:
Phosphorylated on serine residues.

DISEASE:
Defects in CERKL are the cause of retinitis pigmentosa type 26 (RP26) [MIM:608380]. RP leads to degeneration of retinal photoreceptor cells. Patients typically have night vision blindness and loss of midperipheral visual field. As their condition progresses, they lose their far peripheral visual field and eventually central vision as well. RP26 inheritance is autosomal recessive.

Similarity:
Contains 1 DAGKc domain.

SWISS:
Q49MI3

Gene ID:
375298

Database links:

Entrez Gene: 375298Human

Omim: 608381Human

SwissProt: Q49MI3Human

Unigene: 715753Human

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