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Neural retinal specific leucine zipper/NRL Rabbit pAb

Catalog # AP98229

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P54845
Other Accession	P54845
Reactivity	Rat, Human
Predicted	Pig, Mouse, Rabbit, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	25940
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Neural retinal specific leucine zipper/NRL
Epitope Specificity	151-237/237
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the bZIP family. Contains 1 bZIP domain.
DISEASE	Defects in NRL are the cause of retinitis pigmentosa type 27 (RP27) [MIM:162080]. 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. RP27 inheritance is autosomal dominant.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a basic motif-leucine zipper transcription factor of the Maf subfamily. The encoded protein is conserved among vertebrates and is a critical intrinsic regulator of photoceptor development and function. Mutations in this gene have been associated with retinitis pigmentosa and retinal degenerative diseases. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	4901
Other Names	D14S46E; NRL-MAF; RP27; D14H14S46E; NRL_HUMAN; NRL; NRL_MOUSE; neural retina leucine zipper; Maf-family bZIP transcription factor NRL
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	NRL
Synonyms	D14S46E
Function	Acts as a transcriptional activator which regulates the expression of several rod-specific genes, including RHO and PDE6B (PubMed:21981118). Also functions as a transcriptional coactivator, stimulating transcription mediated by the transcription factor CRX and NR2E3 (PubMed:17335001). Binds to the rhodopsin promoter in a sequence- specific manner (PubMed:17335001).
Cellular Location	Cytoplasm. Nucleus
Tissue Location	Expressed in the brain and the retina (PubMed:11477108). Expressed strongly in rod and cone cells (at protein level) (PubMed:11477108).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.