

Rabbit anti-Human, Mouse NRL Polyclonal Antibody | anti-NRL antibody

NRL Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324888	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

NRL; Polyclonal Antibody; NRL Antibody; D14S46E; Neural retina-specific leucine zipper protein; Neural retinal specific leucine zipper; NRL MAF; NRL_HUMAN; RP27; anti-NRL antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	NRL antibody detects endogenous levels of total NRL
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	237
Applicable Applications for anti-NRL antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Nucleus.
Tissue Specificity	Expressed in the brain and the retina (PubMed:11477108). Expressed strongly in rod and cone cells (at protein level) (PubMed:11477108).
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (91%), Xenopus (90%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA324888 staining 293 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from 293 cells, using NRL antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-NRL antibody

Function: Acts as a transcriptional activator which regulates the expression of several rod-specific genes, including RHO and PDE6B (PubMed:21981118). Functions also as a transcriptional coactivator, stimulating transcription mediated by the transcription factor CRX and NR2E3 (PubMed:17335001). Binds in a sequence-specific manner to the rhodopsin promoter (PubMed:17335001).

Subunit Structure: Interacts with FIZ1; this interaction represses transactivation (By similarity). Interacts (via the leucine-zipper domain) with CRX (PubMed:10887186).

Post-translational Modifications: Phosphorylated (PubMed:11477108, PubMed:17335001).Disumoylated at Lys-20. Sumoylation modulates the transcriptional activity of NRL on RHO and NR2E3 promoters, and is required for normal rod differentiation (By similarity).

Similarity: The minimal transactivation domain (MTD) is conserved across the MAF family, it may activate transcription by recruiting TBP and associated factors at the promoters of target genes. Belongs to the bZIP family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5453802
NCBI GeneID	4901
NCBI Accession #	NP_006168.1
NCBI GenBank Nucleotide #	NM_006177.4
UniProt Accession #	P54845; Q53XD0; A8MX14
Molecular Weight	Observed: 26 kD Predicted: 26 kDa
NCBI Official Full Name	neural retina-specific leucine zipper protein isoform 1
NCBI Official Synonym Full Names	neural retina leucine zipper
NCBI Official Symbol	NRL
NCBI Official Synonym Symbols	RP27; D14S46E; NRL-MAF
NCBI Protein Information	neural retina-specific leucine zipper protein
UniProt Protein Name	Neural retina-specific leucine zipper protein
UniProt Gene Name	NRL
UniProt Synonym Gene Names	D14S46E; NRL

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