

Product Datasheet

EYS/RP25 Antibody - BSA Free NBP1-90038

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-90038

EYS/RP25 Antibody - BSA Free

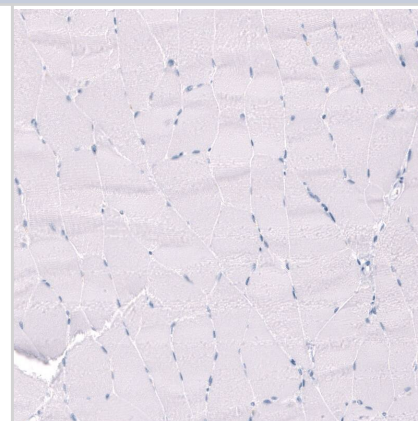
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Host	Rabbit
Gene ID	346007
Gene Symbol	EYS
Species	Human
Reactivity Notes	Zebrafish reactivity was listed previously based on publications citing use with previous lot (A104781). Current lot has been reported by customers to not be reactive with Zebrafish.
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: CECTSGWTGQNCSEEINECDSDPCMNGGLCHESTIPGQFVCLCPPLYTGQFC HQRYNLCDLLHNPCR

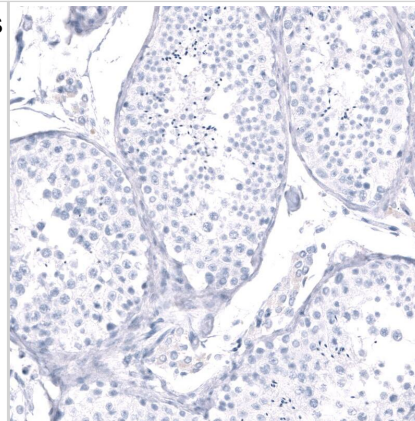
Product Application Details	
Applications	Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen
Recommended Dilutions	Immunohistochemistry 1:500 - 1:1000, Immunocytochemistry/ Immunofluorescence Reported in scientific literature (PMID 27737822)., Immunohistochemistry-Paraffin 1:500 - 1:1000, Immunohistochemistry-Frozen Reported in the scientific literature (PMID: 30052645).
Application Notes	IHC-Paraffin, HIER pH 6 retrieval is recommended.

Images

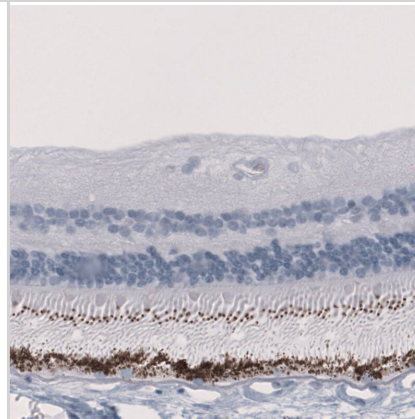
Staining of human eye retina shows strong positivity in the outer segments of rods and cones.



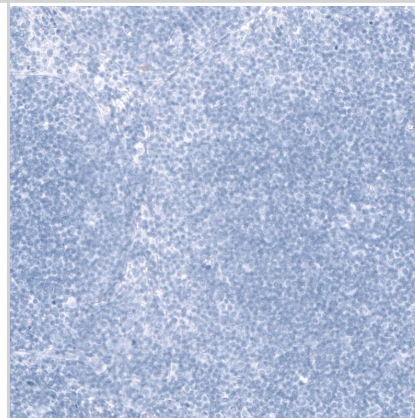
Staining of human testis shows no positivity in cells in seminiferous ducts as expected.



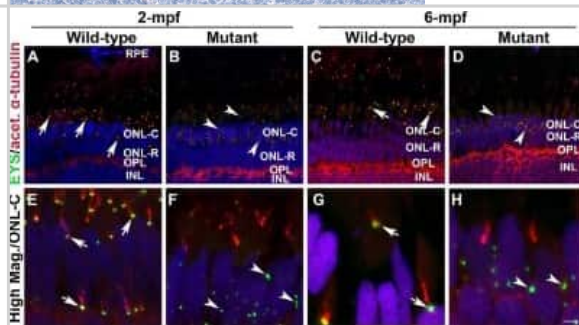
Staining of human eye retina shows strong positivity in the outer segments of rods and cones.



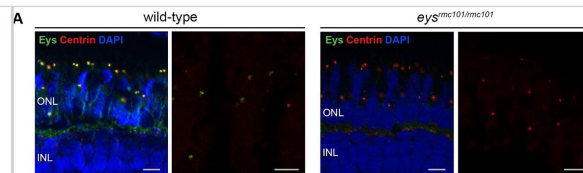
Staining of human tonsil shows no cytoplasmic positivity in non-germinal center cells as expected.



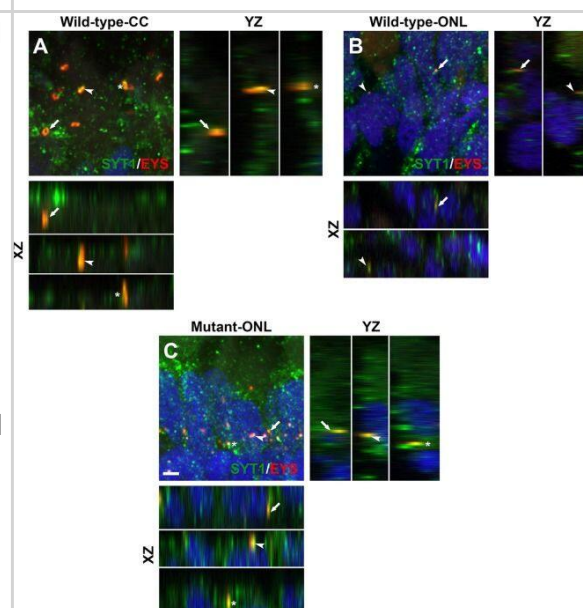
EYS-RP25-Antibody-Immunocytochemistry-Immunofluorescence-NBP1-90038-img0005.jpg



Immunocytochemistry/ Immunofluorescence: EYS/RP25 Antibody [NBP1-90038] - Immunohistochemistry on retinal sections of wild-type & *eysrnc101/rnc101* zebrafish. (A) Retinal sections of wild-type & *eysrnc101/rnc101* zebrafish at 5 dpf & 5 mpf stained with antibodies against Eys (green) & centrin (red). (B) BODIPY (green) staining showing disorganization of photoreceptor outer segments in *eysrnc101/rnc101* zebrafish (5 dpf & 5 mpf) compared to age- & strain-matched wild-type zebrafish (arrows). (C) Retinal sections of wild-type & *eysrnc101/rnc101* zebrafish at 5 dpf (upper panel), 2 mpf (middle panel) & 5 mpf (lower panel) stained with antibodies against rhodopsin (green) & F-actin (red). Asterisks indicate mislocalization of rhodopsin to the inner segments & synapses of photoreceptor cells. (D) Retinal sections of wild-type & *eysrnc101/rnc101* zebrafish at 5 dpf, 2 mpf & 5 mpf stained with antibodies against GNAT2 (green) & F-actin (red). Arrows indicate dysmorphic outer segments in mutant zebrafish. In all images, nuclei are counterstained with DAPI (blue). INL: inner nuclear layer; ONL: outer nuclear layer; OS: outer segments. Scale: 5 μ m. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30052645>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunocytochemistry/ Immunofluorescence: EYS/RP25 Antibody [NBP1-90038] - Mislocalized EYS in *pomgnt1* mutant zebrafish retina was co-localized with synaptogamin-1. Retinal sections from 2-mpf zebrafish were double stained with antibodies against EYS (red fluorescence) & synaptotagmin-1 (green fluorescence). (A) Wild-type inner/outer segment layers showing connecting cilia (CC). Maximal projection & its orthogonal views of three double stained puncta are shown. EYS-immunoreactivity was co-localized with synaptotagmin-1 reactivity. (B) Wild-type outer nuclear layer (ONL). Maximal projection & its orthogonal views of two double stained puncta are shown. EYS-immunoreactivity was co-localized with synaptotagmin-1 reactivity. (C) Homozygous *pomgnt1sny7* mutant outer nuclear layer. Maximal projection & its orthogonal views of three double stained puncta are shown. Mislocalized EYS immunoreactive puncta was co-localized with synaptotagmin-1 reactivity. Scale bar in C: 2 μ m. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32385361>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

- Liu Y, Cao S, Yu M, Hu H. TMEM216 Deletion Causes Mislocalization of Cone Opsin and Rhodopsin and Photoreceptor Degeneration in Zebrafish Investigative Ophthalmology & Visual Science 2020-07-21 [PMID: 32687549] (Immunocytochemistry/ Immunofluorescence, Fish - Danio rerio (Zebrafish))
- Schellens R, de Vrieze E, Graave P et al. Zebrafish as a Model to Evaluate a CRISPR/Cas9-Based Exon Excision Approach as a Future Treatment Option for EYS-Associated Retinitis Pigmentosa International Journal of Molecular Sciences 2021-08-25 [PMID: 34502064] (Immunocytochemistry/ Immunofluorescence, Fish - Danio rerio (Zebrafish))
- Chiang H, Nishiwaki Y, Chiang W, Masai I Male germ cell-associated kinase (MAK) is required for axoneme formation during ciliogenesis in zebrafish photoreceptors bioRxiv 2023-11-21
- Sato K, Liu Y, Yamashita T, Ohuchi H The medaka mutant deficient in eyes shut homolog exhibits opsin transport defects and enhanced autophagy in retinal photoreceptors Cell and tissue research 2022-11-22 [PMID: 36418571]
- Liu Y, Rittershaus JM, Yu M, Sager R et al. Deletion of POMT2 in Zebrafish Causes Degeneration of Photoreceptors International Journal of Molecular Sciences 2022-11-26 [PMID: 36499139] (ICC/IF, Zebrafish)
- Kim J, Park J, Shin S et al. Neo-Fs Index: A Novel Immunohistochemical Biomarker Panel Predicts Survival and Response to Anti-Angiogenetic Agents in Clear Cell Renal Cell Carcinoma Cancers 2021-03-10 [PMID: 33801954] (IF/IHC, Human)
- Nishiguchi KM, Miya F, Mori Y et al. A hypomorphic variant in EYS detected by genome-wide association study contributes toward retinitis pigmentosa Communications biology 2021-01-29 [PMID: 33514863] (IHC-Fr, Zebrafish)
- Lu Z, Hu X et al. Ablation of EYS in zebrafish causes mislocalisation of outer segment proteins, F-actin disruption and cone-rod dystrophy. Sci Rep 2017-05-04 [PMID: 28378834] (IF/IHC, Zebrafish)
- Liu Y, Yu M, Shang X et al. Eyes shut homolog (EYS) interacts with matriglycan of O-mannosyl glycans whose deficiency results in EYS mislocalization and degeneration of photoreceptors Sci Rep 2020-05-08 [PMID: 32385361] (IHC-Fr, Zebrafish)
- Nishiguchi KM, Miya F, Mori Y Systematic detection of Mendelian and non-Mendelian variants associated with retinitis pigmentosa by genome-wide association study bioRxiv 2019-12-01 (ICC/IF, Zebrafish)
- Messchaert M, Dona M, Broekman S et al. Eyes shut homolog is important for the maintenance of photoreceptor morphology and visual function in zebrafish PLoS ONE 2018-07-27 [PMID: 30052645] (IHC-Fr, Zebrafish)
- Yu M, Liu Y, Li J et al. Eyes shut homolog is required for maintaining the ciliary pocket and survival of photoreceptors in zebrafish. Biol Open 2016-10-13 [PMID: 27737822] (ICC/IF, Zebrafish)





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Products Related to NBP1-90038

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NBP2-24891	Rabbit IgG Isotype Control

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