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NR2E3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14205C

Specification

NR2E3 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q9Y5X4
Other Accession	Q9TTF0, NP_055064.1, NP_057430.1
Reactivity	**Human**
Predicted	**Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**44692**
Antigen Region	**170-198**

NR2E3 Antibody (Center) - Additional Information

Gene ID 10002

Other Names
Photoreceptor-specific nuclear receptor, Nuclear receptor subfamily 2 group E member 3, Retina-specific nuclear receptor, NR2E3, PNR, RNR

Target/Specificity
This NR2E3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 170-198 amino acids from the Central region of human NR2E3.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
NR2E3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

NR2E3 Antibody (Center) - Protein Information

Name NR2E3

Synonyms PNR, RNR

Function Orphan nuclear receptor of retinal photoreceptor cells. Transcriptional factor that is an activator of rod development and repressor of cone development. Binds the promoter region of a number of rod- and cone-specific genes, including rhodopsin, M- and S-opsin and rod-specific phosphodiesterase beta subunit. Enhances rhodopsin expression. Represses M- and S-cone opsin expression.

Cellular Location
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00407, ECO:0000269|PubMed:15689355}

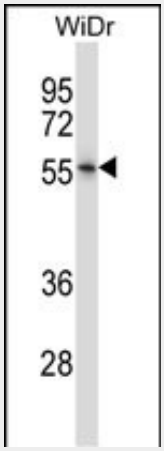
Tissue Location
Eye specific; found solely in the outer nuclear layer of the adult neurosensory retina, where the nuclei of cone and rod photoreceptors reside.

NR2E3 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

NR2E3 Antibody (Center) - Images



NR2E3 Antibody (Center) (Cat. #AP14205c) western blot analysis in WiDr cell line lysates (35ug/lane).This demonstrates the NR2E3 antibody detected the NR2E3 protein (arrow).

NR2E3 Antibody (Center) - Background

This protein is part of a large family of nuclear receptor transcription factors involved in signaling pathways. Nuclear receptors have been shown to regulate pathways involved in embryonic development, as well as in maintenance of proper cell function in adults. Members of this family are characterized by

discrete domains that function in DNA and ligand binding. This gene encodes a retinal nuclear receptor that is a ligand-dependent transcription factor. Defects in this gene are a cause of enhanced S cone syndrome. Alternatively spliced transcript variants encoding different isoforms have been identified.

NR2E3 Antibody (Center) - References

Clark, G.R., et al. Ophthalmology 117(11):2169-2177(2010)
Yang, Y., et al. Invest. Ophthalmol. Vis. Sci. 51(4):2229-2235(2010)
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Kanda, A., et al. Mol. Vis. 15, 2174-2184 (2009) :
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