

**NDP Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9110a****Specification**

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**NDP Antibody (N-term) Blocking Peptide - Product Information**

Primary Accession [Q00604](#)

**NDP Antibody (N-term) Blocking Peptide - Additional Information**

**Gene ID** 4693

**Other Names**

Norrin, Norrie disease protein, X-linked exudative vitreoretinopathy 2 protein, NDP, EVR2

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP9110a](/products/AP9110a) was selected from the N-term region of human NDP. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**NDP Antibody (N-term) Blocking Peptide - Protein Information**

**Name** NDP

**Synonyms** EVR2

**Function**

Activates the canonical Wnt signaling pathway through FZD4 and LRP5 coreceptor. Plays a central role in retinal vascularization by acting as a ligand for FZD4 that signals via stabilizing beta-catenin (CTNNB1) and activating LEF/TCF-mediated transcriptional programs. Acts in concert with TSPAN12 to activate FZD4 independently of the Wnt- dependent activation of FZD4, suggesting the existence of a Wnt- independent signaling that also promote accumulation the beta-catenin (CTNNB1). May be involved in a pathway that regulates neural cell differentiation and proliferation. Possible role in neuroectodermal cell-cell interaction.

**Cellular Location**

Secreted.

**Tissue Location**

Expressed in the outer nuclear, inner nuclear and ganglion cell layers of the retina, and in fetal and adult brain

**NDP Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**NDP Antibody (N-term) Blocking Peptide - Images****NDP Antibody (N-term) Blocking Peptide - Background**

NDP encodes a secreted protein with a cystein-knot motif that activates the Wnt/beta-catenin pathway. The protein forms disulfide-linked oligomers in the extracellular matrix.

**NDP Antibody (N-term) Blocking Peptide - References**

Ohlmann,A., et.al., J. Neurosci. 30 (1), 183-193 (2010)Aponte,E.P., et.al., Ophthalmic Genet. 30 (2), 99-102 (2009)