

## Rabbit NDP Polyclonal Antibody | anti-NDP antibody

NDP Antibody

|                               |                       |                                        |                                                                  |
|-------------------------------|-----------------------|----------------------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA326485</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>ELISA, Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|------------------------------------------------------------------|

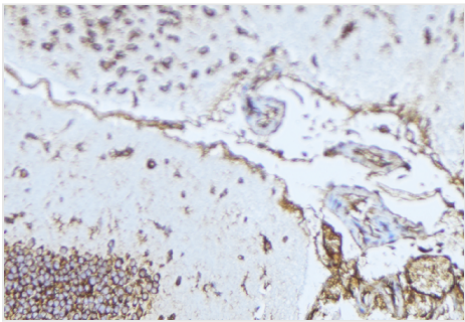
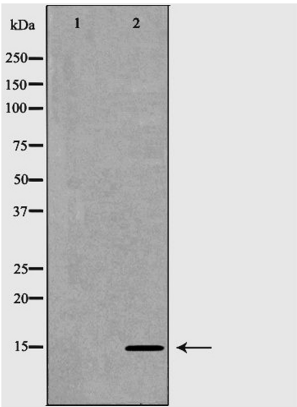
### PRODUCT SYNONYMS

NDP; Polyclonal Antibody; NDP Antibody; EVR2; Exudative vitreoretinopathy 2 (X linked); FEVR; ND; NDP\_HUMAN; Norrie disease (pseudoglioma); Norrie disease protein; Norrin; Norrin precursor; X linked exudative vitreoretinopathy 2 protein; X-linked exudative vitreoretinopathy 2 protein; anti-NDP antibody

### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                     |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                              |
| Reactivity                                    | Human, Mouse, Rat                                                                                                   |
| Clonality                                     | Polyclonal                                                                                                          |
| Isotype                                       | IgG                                                                                                                 |
| Specificity                                   | NDP antibody detects endogenous levels of total NDP                                                                 |
| Purity/Purification                           | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                       |
| Form/Format                                   | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                       |
| Concentration                                 | 1mg/ml (varies by lot)                                                                                              |
| Sequence Length                               | 133                                                                                                                 |
| Applicable Applications for anti-NDP antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)                                                                |
| Immunogen                                     | A synthesized peptide derived from human NDP                                                                        |
| Subcellular Location                          | Secreted.                                                                                                           |
| Tissue Specificity                            | Expressed in the outer nuclear, inner nuclear and ganglion cell layers of the retina, and in fetal and adult brain. |
| Predicted Cross Reactivity                    | <b>Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus</b>                                                     |
| Similarity                                    | Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (89%), Xenopus (89%)      |
| Conjugation                                   | Unconjugated                                                                                                        |
| Preparation and Storage                       | Store at -20 degree C. Stable for 12 months from date of receipt.                                                   |

IMAGES



**IHC (Immunohistochemistry)**  
AAA326485 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

**WB (Western Blot)**  
Western blot analysis of Mouse liver tissue lysates, using NDP Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-NDP antibody

**Description:** This gene 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. Mutations in this gene result in Norrie disease and X-linked exudative vitreoretinopathy.

**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.

**Subunit Structure:** Homodimer; disulfide-linked. Component of a complex, at least composed of TSPAN12, FZD4, LRP5/6 and norrin (NDP). Binds FZD4 with high affinity. Interacts with LRP6 (via Beta-propellers 1 and 2).

NCBI AND UNIPROT INFORMATION

|                                  |                                        |
|----------------------------------|----------------------------------------|
| NCBI GI #                        | 4557789                                |
| NCBI GeneID                      | 4693                                   |
| NCBI Accession #                 | NP_000257.1                            |
| NCBI GenBank Nucleotide #        | NM_000266.3                            |
| UniProt Accession #              | Q00604; Q5JYH5; B2R8K6                 |
| Molecular Weight                 | Observed: 15 kDa<br>Predicted: 16 kDa  |
| NCBI Official Full Name          | norrin                                 |
| NCBI Official Synonym Full Names | NDP, norrin cystine knot growth factor |
| NCBI Official Symbol             | NDP                                    |
| NCBI Official Synonym Symbols    | ND; EVR2; FEVR                         |
| NCBI Protein Information         | norrin                                 |
| UniProt Protein Name             | Norrin                                 |
| UniProt Gene Name                | NDP                                    |
| UniProt Synonym Gene Names       | EVR2                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://stage.aaabiotech.com/polyclonal/ndp-antibody-immunohistochemistry-western-blot-elisa/326485>