

Product datasheet

Anti-NDP antibody ab90690

[2 Images](#)

Overview

Product name	Anti-NDP antibody
Description	Rabbit polyclonal to NDP
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Rabbit, Horse, Chicken, Guinea pig, Cow, Cat, Dog, Pig
Immunogen	A synthetic peptide corresponding to a region within internal sequence amino acids 36 - 85 (PRRCMRHHYV DSISHPLYKC SSKMVLARC EGHCSQASRS EPLVSFSTVL) of Human NDP (NP_000257). Run BLAST with ExPASy Run BLAST with NCBI
Positive control	Human fetal liver lysate

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: PBS, 2% Sucrose
Purity	Immunogen affinity purified
Purification notes	Purified by peptide affinity chromatography method.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab90690** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 5 µg/ml.
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 15 kDa. Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.

Target

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.
Tissue specificity	Expressed in the outer nuclear, inner nuclear and ganglion cell layers of the retina, and in fetal and adult brain.
Involvement in disease	<p>Defects in NDP are the cause of Norrie disease (ND) [MIM:310600]; also known as atrophía bulborum hereditaria or Episkopi blindness. ND is a recessive disorder characterized by very early childhood blindness due to degenerative and proliferative changes of the neuroretina. Approximately 50% of patients show some form of progressive mental disorder, often with psychotic features, and about one-third of patients develop sensorineural deafness in the second decade. In addition, some patients have more complex phenotypes, including growth failure and seizure.</p> <p>Defects in NDP are the cause of vitreoretinopathy exudative type 2 (EVR2) [MIM:305390]. EVR2 is a disorder of the retinal vasculature characterized by an abrupt cessation of growth of peripheral capillaries, leading to an avascular peripheral retina. This may lead to compensatory retinal neovascularization, which is thought to be induced by hypoxia from the initial avascular insult. New vessels are prone to leakage and rupture causing exudates and bleeding, followed by scarring, retinal detachment and blindness. Clinical features can be highly variable, even within the same family. Patients with mild forms of the disease are asymptomatic, and their only disease related abnormality is an arc of avascular retina in the extreme temporal periphery.</p>
Sequence similarities	Contains 1 CTCK (C-terminal cystine knot-like) domain.
Cellular localization	Secreted.

Images



60 kDa__
40 kDa__
31 kDa__
22 kDa__
10 kDa__

Western blot - Anti-NDP antibody (ab90690)

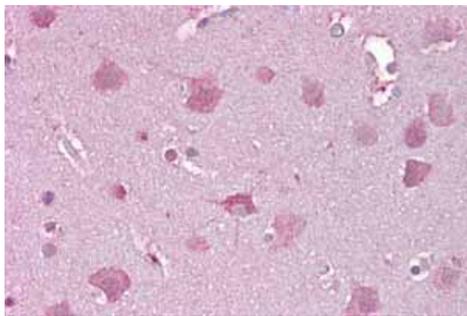
Anti-NDP antibody (ab90690) at 1 μ g/ml (in 5% skim milk / PBS buffer) + Human fetal liver lysate at 10 μ g

Secondary

HRP conjugated anti-Rabbit IgG at 1/50000 dilution

Predicted band size: 15 kDa

Gel concentration: 10-20%



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NDP antibody (ab90690)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human brain, cortex tissue labelling NDP with ab90690 at 5 μ g/ml.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors