

## Human NPDC-1 Alexa Fluor® 350-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF5489U

100 µg

| DESCRIPTION        |   |  |  |
|--------------------|---|--|--|
| Species Reactivity | y Human   |  |  |
| Specificity        | Detects human NPDC-1 in direct ELISAs and Western blots.  |  |  |
| Source             | Polyclonal Sheep IgG  |  |  |
| Purification       | Antigen Affinity-purified   |  |  |
| Immunogen          | Mouse myeloma cell line NS0-derived recombinant human NPDC-1 Gly35-Asp181 Accession # Q9NQX5  |  |  |
| Conjugate          | Alexa Fluor 350<br>Excitation Wavelength: 346 nm<br>Emission Wavelength: 442 nm   |  |  |
| Formulation        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet |  |  |
|                    | (SDS) for additional information and handling instructions.   |  |  |

|  | AP | PLIC/ | ATION | IS |  |
|--|----|-------|-------|----|--|
|--|----|-------|-------|----|--|

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

| PREPARATION AND STORAGE |   |  |
|-------------------------|---|--|
| Shipping                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |  |
| Stability & Storage     | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |  |

## BACKGROUND

NPDC-1 (Neural proliferation differentiation and control protein 1) is a 35 kDa member of the NPDC1/cab1 family of proteins. It is principally expressed in neurons, and serves as an anti-proliferation agent. It may accomplish this, in part, by binding to E2F-1 and blocking its protranscriptional activity. Mature human NPDC-1 is 291 amino acids (aa) in length. It is a type I transmembrane protein that contains an NLS (aa 107-124), an HLH domain (aa 95-128), a transmembrane domain (aa 182-202), and a PEST degradation sequence (aa 269-302). Phosphorylation promotes ubiquitination at this latter site. There are two splice variants. One shows a deletion of aa 242-263, while another shows a nine aa substitution for the nine aa in positions 218-226. Over aa 35-181, human NPDC-1 shares 68% aa identity with mouse NPDC-1.

## PRODUCT SPECIFIC NOTICES

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