

DESCRIPTION

Species Reactivity	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 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.	

APPLICATIONS

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.

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