

Human NPDC-1 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: BAF5489

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human NPDC-1 in 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	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.	
APPLICATIONS Please Note: Optimal cliution		
	ions should be determined by each laboratory for each applicatio Recommended	n. General Protocols are available in the Technical Information section on our website. Sample
Please Note: Optimal dilution	ions should be determined by each laboratory for each applicatio Recommended Concentration	n. General Protocols are available in the Technical Information section on our website. Sample
Please Note: Optimal dilution	ions should be determined by each laboratory for each applicatio Recommended	n. General Protocols are available in the Technical Information section on our website.
Please Note: Optimal dilution	ions should be determined by each laboratory for each applicatio Recommended Concentration 0.1 μg/mL	n. General Protocols are available in the Technical Information section on our website. Sample
Please Note: Optimal dilution Western Blot PREPARATION AND S	ions should be determined by each laboratory for each applicatio Recommended Concentration 0.1 μg/mL	n. General Protocols are available in the Technical Information section on our website. Sample
	ions should be determined by each laboratory for each applicatio Recommended Concentration 0.1 μg/mL STORAGE Reconstitute at 0.2 mg/mL in sterile PBS.	n. General Protocols are available in the Technical Information section on our website. Sample

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.