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Rabbit Anti-NPDC1 antibody

SL11913R

Product Name:	NPDC1
Chinese Name:	神经细胞增殖和分化调控蛋白1抗体
Alias:	AI314472; CAB1; Neural proliferation differentiation and control protein 1; NPDC-1; NPDC1; NPDC1_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	31kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human NPDC1:75-180/325
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	NPDC-1 (Neural Proliferation Differentiation and Control-1) is expressed in neurons once they have stopped dividing and begun to differentiate. NPDC-1 is transported from the Golgi apparatus via vesicles before becoming internalized by endosomes at the cell membrane. NPDC-1 interacts with Cdk2, D-type cyclins, and the transcription factor E2F1. This interaction can lead to an increased replication time, and might have implications in final neural differentiation and apoptosis. NPDC-1 has been shown to

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colocalize with synaptic vesicle proteins: synaptophysin, synaptobrevin 2, and Rab3 GEP (Rab3 GTP/GDP exchange protein). One function of NPDC-1 is to regulate retinoic acid-mediated events by directly interacting with retinoid receptors. The amino acid sequence of NPDC-1 is highly conserved between mouse, rat, and human.

Function:
Suppresses oncogenic transformation in neural and non-neural cells and down-regulates neural cell proliferation. Might be involved in transcriptional regulation.

Subcellular Location:
Membrane; Single-pass membrane protein (Potential).

Tissue Specificity:
Strongly expressed in adult brain; especially in hippocampus, frontal lobe and temporal lobe.

Similarity:
Belongs to the NPDC1/cab-1 family.

SWISS:
Q9NQX5

Gene ID:
56654

Database links:

Entrez Gene: 56654Human

Entrez Gene: 18146Mouse

Entrez Gene: 296562Rat

Omim: 605798Human

SwissProt: Q9NQX5Human

SwissProt: Q64322Mouse

Unigene: 719906Human

Unigene: 1131Mouse

Unigene: 5802Rat

Important Note:

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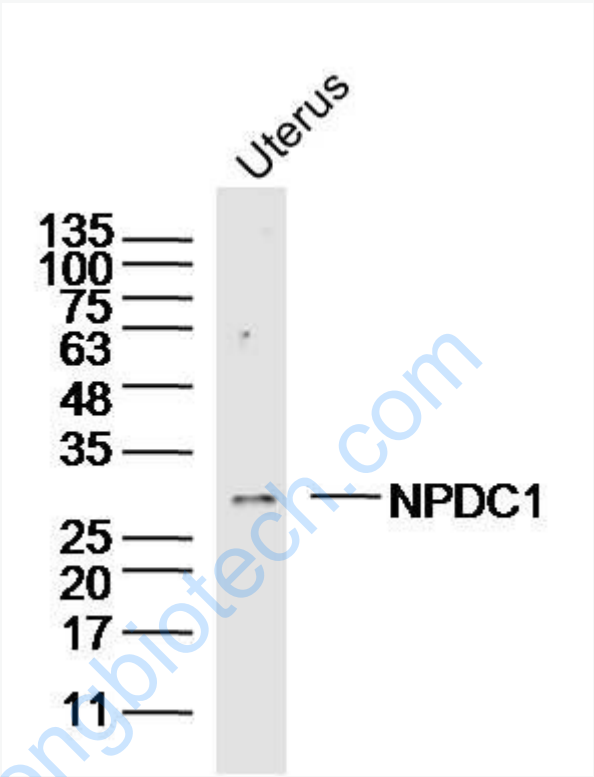
	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Sample: Uterus (mouse) Lysate at 40 ug Primary: Anti- NPDC1(SL11913R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 31 kD Observed band size: 31 kD

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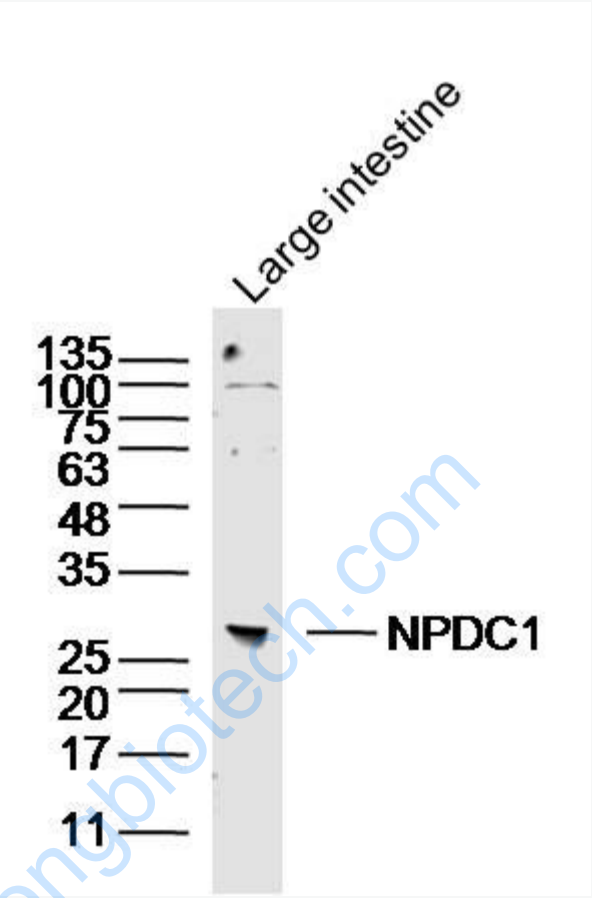

Sample: Large intestine (mouse) Lysate at 40 ug

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