

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.
Research Area	Neurobiology Apoptosis Cyclin Cell differentiation
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse(predicted:Human,Rat)
Applications	WB=1:500-2000 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	31kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human NPDC1: 75-180/325
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
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 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: 56654](#) Human

[Entrez Gene: 18146](#) Mouse

[Entrez Gene: 296562](#) Rat

[Omim: 605798](#) Human

[SwissProt: Q9NQX5](#) Human

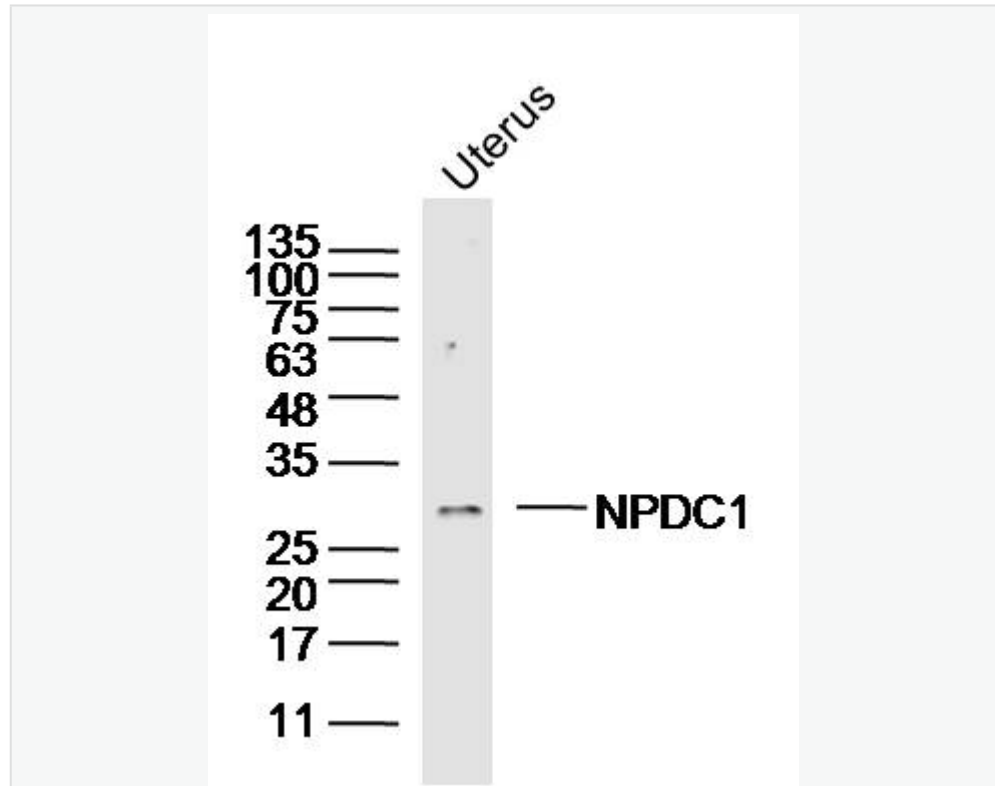
[SwissProt: Q64322](#) Mouse

[Unigene: 719906](#) Human

[Unigene: 1131](#) Mouse

[Unigene: 5802](#) Rat

Product Picture



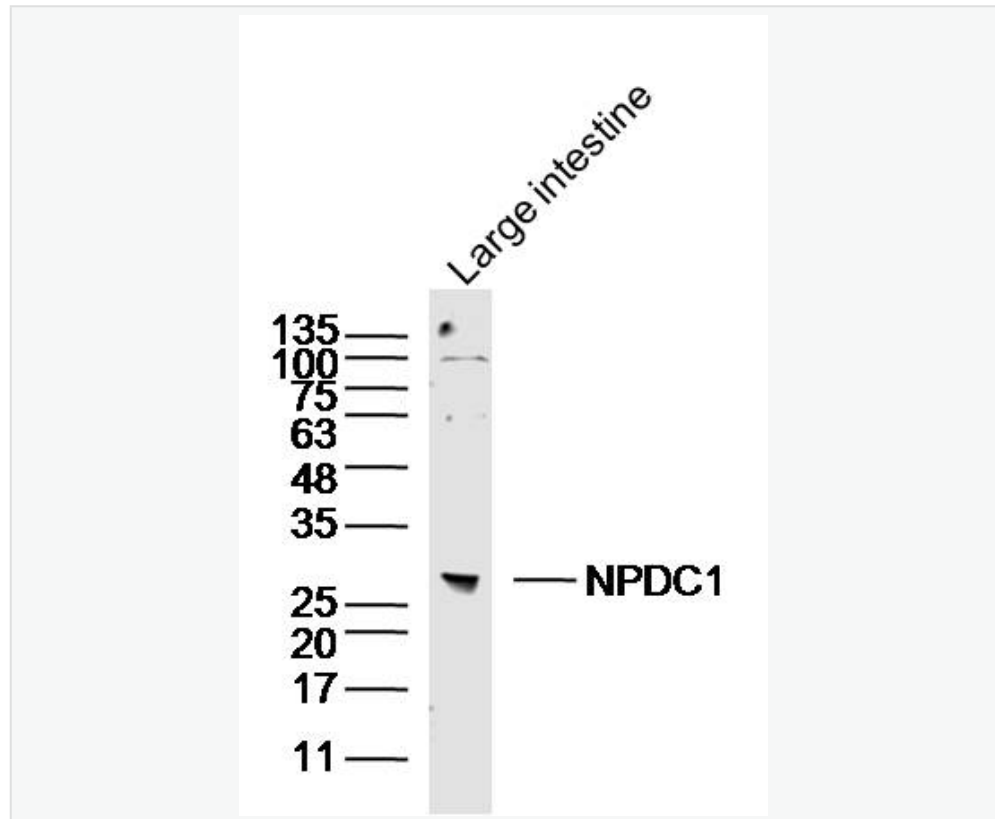
Sample: Uterus (mouse) Lysate at 40 ug

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



Sample: Large intestine (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