bs-11913R **[Primary Antibody]**

NPDC1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 56654 **SWISS:** Q9NQX5

Target: NPDC1

Immunogen: KLH conjugated synthetic peptide derived from human NPDC1: 75-180/325.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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.

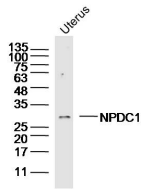
Applications: **WB** (1:500-2000)

Reactivity: Mouse (predicted: Human, Rat)

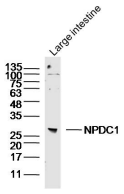
Predicted MW.: 31 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Uterus (mouse) Lysate at 40 ug Primary: Anti- NPDC1(bs-11913R) 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(bs-11913R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 31 kD Observed band size: 31 kD