Recombinant DGRmAb®

# Niemann Pick C1 (DGR14389) Rabbit mAb (PBS Only)

**db15316-PBS** **Package : 100μg**

**Product Name :** Niemann Pick C1 (DGR14389) Rabbit mAb (PBS Only)
**Cat.No.:** db15316-PBS
**Synonyms :** NPC
**Application :** WB, IHC-P, ICC/IF, FC
**Reactivity :** Human,Mouse,Rat
**Host species :** Rabbit

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| **Background** | This gene encodes a large protein that resides in the limiting membrane of endosomes and lysosomes and mediates intracellular cholesterol trafficking via binding of cholesterol to its N-terminal domain. It is predicted to have a cytoplasmic C-terminus, 13 transmembrane domains, and 3 large loops in the lumen of the endosome - the last loop being at the N-terminus. This protein transports low-density lipoproteins to late endosomal/lysosomal compartments where they are hydrolized and released as free cholesterol. Defects in this gene cause Niemann-Pick type C disease, a rare autosomal recessive neurodegenerative disorder characterized by over accumulation of cholesterol and glycosphingolipids in late endosomal/lysosomal compartments. [provided by RefSeq, Aug 2009] |
| **Immunogen** | A synthetic peptide of human Niemann Pick C1 |
| **Gene ID** | 4864 |
| **Swiss Prot** | O15118 |
| **Synonyms** | NPC |
| **Reactivity** | Human,Mouse,Rat |
| **Application** | WB, IHC-P, ICC/IF, FC |
| **Recommended dilution** | WB: 1:1000-1:5000<br>IHC-P: 1:50-1:100<br>ICC/IF: 1:50-1:100<br>FC: 1:100-1:200 |
| **Calculated MW** | 142 kDa |
| **Observed MW** | 160-180 kDa |
| **Host species** | Rabbit |

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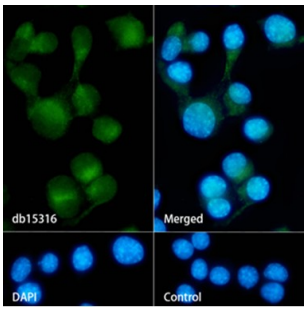
| **Clonality** | Monoclonal |
| **Clonality No.** | DGR14389 |
| **Isotype** | IgG |
| **Purity** | Affinity Purification |
| **Conjugation** | Un-conjugated |
| **Concentration** | 1 mg/ml |
| **Formulation** | PBS Only |
| **Storage Stability** | Store at -20°C. Recommended to aliquot into single-use vials. Supplied in 1X PBS (pH 7.4). BSA and Azide Free. Stable for 12 months from date of receipt. |




Immunofluorescence analysis of Neuro-2a cells labelling Niemann Pick C1 with db15316.

The cells were fixed with 4% PFA (10min, RT) followed by treatment with 0.1% Triton X-100 (10min, RT), and blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween 20 for 1h. The cells were then incubate with db15316 (1:50) at room temprature for 1h, followed by a further incubation at room temperature for 45min with Goat Anti Rabbit IgG (H+L)-AF488 (db10005, shown in green). Nuclear DNA was labeled in blue with DAPI.

Control: Secondary antibody only.