

Recombinant

DGRmAb®

**Niemann Pick C1 (DGR14389) Rabbit mAb**

db15316

Package : 10µL 20µL 50µL 100µL

**Product Name** : Niemann Pick C1 (DGR14389) Rabbit mAb**Cat.No.:** db15316**Synonyms** : NPC**Application** : WB, IHC-P, ICC/IF, FC**Reactivity** : Human,Mouse,Rat**Host species** : Rabbit**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 hydrolyzed 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  
IHC-P: 1:50-1:100  
ICC/IF: 1:50-1:100  
FC: 1:100-1:200**Calculated MW**

142 kDa

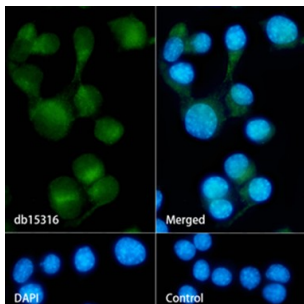
**Observed MW**

160-180 kDa

**Host species**

Rabbit

|                   |                                                                                                                                                               |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Clonality         | Monoclonal                                                                                                                                                    |
| Clonality No.     | DGR14389                                                                                                                                                      |
| Isotype           | IgG                                                                                                                                                           |
| Purity            | Affinity Purification                                                                                                                                         |
| Conjugation       | Un-conjugated                                                                                                                                                 |
| Storage Stability | Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. 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.