**Product datasheet**

**Anti-Niemann Pick C2 antibody ab186829**

1 References  5 Images

**Overview**

**Product name**  Anti-Niemann Pick C2 antibody  
**Description**  Rabbit polyclonal to Niemann Pick C2  
**Host species**  Rabbit  
**Tested applications**  Suitable for: ICC/IF, IHC-P, WB  
**Species reactivity**  Reacts with: Mouse, Rat, Human  
**Immunogen**  Recombinant fragment corresponding to Human Niemann Pick C2.  
Database link: P61916  
**Positive control**  293T, M21, mouse lung, mouse spleen and mouse liver cell extracts.

**Properties**

**Form**  Liquid  
**Storage instructions**  Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.  
**Storage buffer**  pH: 7.3  
Preservative: 0.02% Sodium azide  
Constituents: 49% PBS, 50% Glycerol  
**Purity**  Immunogen affinity purified  
**Clonality**  Polyclonal  
**Isotype**  IgG

**Applications**

Our Abpromise guarantee covers the use of **ab186829** in the following tested applications.  
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC/IF</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
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<tr>
<td>IHC-P</td>
<td></td>
<td>1/50 - 1/200.</td>
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</table>
Function
May be involved in the regulation of the lipid composition of sperm membranes during the maturation in the epididymis.

Tissue specificity
Epididymis.

Involvement in disease
Defects in NPC2 are the cause of Niemann-Pick disease type C2 (NPDC2) [MIM:607625]. A lysosomal storage disorder that affects the viscera and the central nervous system. It is due to defective intracellular processing and transport of low-density lipoprotein derived cholesterol. It causes accumulation of cholesterol in lysosomes, with delayed induction of cholesterol homeostatic reactions. Niemann-Pick disease type C2 has a highly variable clinical phenotype. Clinical features include variable hepatosplenomegaly and severe progressive neurological dysfunction such as ataxia, dystonia and dementia. The age of onset can vary from infancy to late adulthood.

Sequence similarities
Belongs to the NPC2 family.

Cellular localization
Secreted.

Images

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**Target**

**Function**
May be involved in the regulation of the lipid composition of sperm membranes during the maturation in the epididymis.

**Tissue specificity**
Epididymis.

**Involvement in disease**
Defects in NPC2 are the cause of Niemann-Pick disease type C2 (NPDC2) [MIM:607625]. A lysosomal storage disorder that affects the viscera and the central nervous system. It is due to defective intracellular processing and transport of low-density lipoprotein derived cholesterol. It causes accumulation of cholesterol in lysosomes, with delayed induction of cholesterol homeostatic reactions. Niemann-Pick disease type C2 has a highly variable clinical phenotype. Clinical features include variable hepatosplenomegaly and severe progressive neurological dysfunction such as ataxia, dystonia and dementia. The age of onset can vary from infancy to late adulthood.

**Sequence similarities**
Belongs to the NPC2 family.

**Cellular localization**
Secreted.

**Images**

Western blot - Anti-Niemann Pick C2 antibody (ab186829) at 1/500 dilution

- **All lanes**: Anti-Niemann Pick C2 antibody (ab186829) at 1/500 dilution
- **Lane 1**: 293T cell extract
- **Lane 2**: M21 cell extract
- **Lane 3**: Mouse lung cell extract
- **Lane 4**: Mouse spleen cell extract
- **Lane 5**: Mouse liver cell extract

**Predicted band size**: 17 kDa
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human lung tissue labelling Niemann Pick C2 with ab186829 at 1/200. Magnification: 400x.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human liver cancer tissue labelling Niemann Pick C2 with ab186829 at 1/200. Magnification: 200x.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney tissue labelling Niemann Pick C2 with ab186829 at 1/200. Magnification: 400x.
Immunocytochemistry/Immunofluorescence analysis of U2OS cells using ab186829. Blue DAPI for nuclear staining.

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