

## Recombinant NPC2 Monoclonal Antibody

catalog number: **AN300054P**

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Description

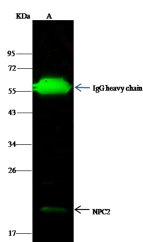
<b>Reactivity</b>	Human
<b>Immunogen</b>	Recombinant Human NPC2 Protein
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Clone</b>	6G8
<b>Purification</b>	Protein A
<b>Buffer</b>	0.2 µm filtered solution in PBS

### Applications

### Recommended Dilution

<b>WB</b>	1:500-1:2000
<b>IP</b>	1-4 µL/mg of lysate

### Data



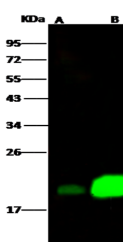
Immunoprecipitation analysis using 2 µL anti-NPC2-His Monoclonal Antibody and 15 µL of 50 % Protein G agarose.

Western blot was performed from the immunoprecipitate using NPC2-His Monoclonal Antibody at a dilution of 1:100.

Lane A: 0.5 mg NIH-3T3 Whole Cell Lysate

**Observed-MW: 19 kDa**

**Calculated-MW: 17 kDa**



Western Blot with NPC2 Monoclonal Antibody at dilution of 1:500. Lane A: Hela Whole Cell Lysate, Lane B: NIH-3T3

Whole Cell Lysate, Lysates/proteins at 30 µg per lane.

**Observed-MW: 19 kDa**

**Calculated-MW: 17 kDa**

### Preparation & Storage

<b>Storage</b>	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
<b>Shipping</b>	Ice bag

### Background

### For Research Use Only

Niemann-Pick Type C2 (NPC2) plays an important role in the regulation of intracellular cholesterol homeostasis via direct binding with free cholesterol. NPC2 is an intralysosomal protein that binds cholesterol in vitro. NPC2 is a small lysosomal glycoprotein that binds cholesterol with submicromolar affinity. Deficiency in NPC2 is the cause of Niemann-Pick type C2 disease, a fatal neurovisceral disorder characterized by the accumulation of cholesterol in lysosomes. Niemann-Pick disease, type C2 (NPC2) protein is one of the most abundant components of the epididymal fluid and contains a functional cholesterol-binding site that can transfer cholesterol between membranes, it has been suggested for years that NPC2 could be involved in the regulation of cholesterol levels in spermatozoa during epididymal maturation.