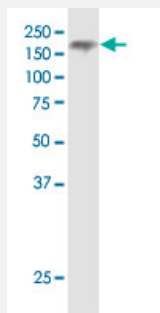


# NPC1 monoclonal antibody (M02), clone 4H2

Catalog # H00004864-M02

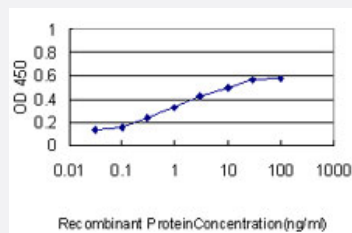
Size 100 ug

## Applications



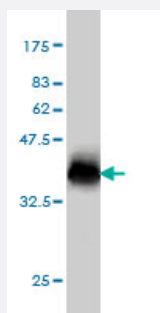
### Western Blot (Cell lysate)

NPC1 monoclonal antibody (M02), clone 4H2. Western Blot analysis of NPC1 expression in HeLa.



### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged NPC1 is approximately 0.03ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.63 KDa) .

## Specification

### Product Description

Mouse monoclonal antibody raised against a partial recombinant NPC1.

|                                      |                                                                                                                  |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen</b>                     | NPC1 (AAH63302, 151 a.a. ~ 250 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| <b>Sequence</b>                      | GFANAMYNACRDVEAPSSNDKALGLLCGKDADACNATNWIEYMFNKGQAPFTITPVFSDFPV<br>HGMEPMNNATKGCDSEVDEV TAPCSCQDCSIVCGPK          |
| <b>Host</b>                          | Mouse                                                                                                            |
| <b>Reactivity</b>                    | Human                                                                                                            |
| <b>Interspecies Antigen Sequence</b> | Mouse (89); Rat (89)                                                                                             |
| <b>Isotype</b>                       | IgG2a Kappa                                                                                                      |
| <b>Quality Control Testing</b>       | Antibody Reactive Against Recombinant Protein.<br>Western Blot detection against Immunogen (36.63 KDa) .         |
| <b>Storage Buffer</b>                | In 1x PBS, pH 7.4                                                                                                |
| <b>Storage Instruction</b>           | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                         |

## Applications

- Western Blot (Cell lysate)

NPC1 monoclonal antibody (M02), clone 4H2. Western Blot analysis of NPC1 expression in HeLa.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged NPC1 is approximately 0.03ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

## Gene Info — NPC1

Entrez GeneID [4864](#)

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GeneBank Accession# | <a href="#">BC063302</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Protein Accession#  | <a href="#">AAH63302</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Gene Name           | NPC1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Gene Alias          | NPC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene Description    | Niemann-Pick disease, type C1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Omim ID             | <a href="#">257220 607623</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Gene Summary        | <p>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</p> |
| Other Designations  | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Publication Reference

- [NADH-cytochrome b5 reductase 3 promotes colonization and metastasis formation and is a prognostic marker of disease-free and overall survival in estrogen receptor-negative breast cancer.](#)

Lund RR, Leth-Larsen R, Caterino TD, Terp MG, Nissen J, Laenkholm AV, Jensen ON, Ditzel HJ.

Molecular & Cellular Proteomics 2015 Nov; 14(11):2988.

Application: WB-Ce, Human, NM-2C5, M-4A4 cells

## Pathway

- [Lysosome](#)

## Disease

- [Alzheimer disease](#)
- [Birth Weight](#)

- [Cardiovascular Diseases](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Lymphoma](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Niemann-Pick Disease](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Overweight](#)