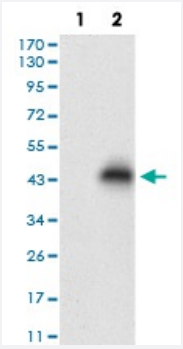
NPC1 monoclonal antibody, clone 8D10B6

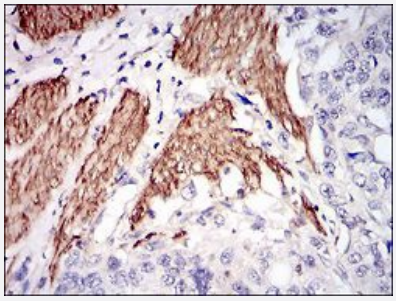
Catalog # MAB17770 Size 100 ug

Applications



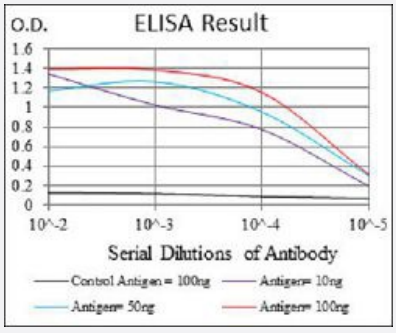
Western Blot (Transfected lysate)

Western blot analysis of (1) HEK293 cells, (2) NPC1-hIgGFc transfected HEK293 cell lysate with NPC1 monoclonal antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of paraffin-embedded esophageal cancer tissue with NPC1 monoclonal antibody.



Enzyme-linked Immunoabsorbent Assay

ELISA analysis of NPC1 monoclonal antibody, clone 8D10B6.

Specification

Product Description	Mouse monoclonal antibody raised against recombinant human NPC1.
Immunogen	Recombinant protein corresponding to amino acids 34-174 of human NPC1 from *E. coli*.

Host	Mouse
Theoretical MW (kDa)	142.2
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Immunohistochemistry (1:200-1:1000) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Transfected lysate)

  Western blot analysis of (1) HEK293 cells, (2) NPC1-hIgGFc transfected HEK293 cell lysate with NPC1 monoclonal antibody.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining of paraffin-embedded esophageal cancer tissue with NPC1 monoclonal antibody.

- Enzyme-linked Immunoabsorbent Assay

  ELISA analysis of NPC1 monoclonal antibody, clone 8D10B6.

Gene Info — NPC1

Entrez GeneID	4864
Gene Name	NPC1
Gene Alias	NPC
Gene Description	Niemann-Pick disease, type C1
Omim ID	257220 607623

Gene Ontology	Hyperlink
Gene Summary	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
Other Designations	-

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