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# anti-NPC1 antibody (AA 34-174)



2

**Publications** 



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Quantity:	0.1 mg	
Target:	NPC1	
Binding Specificity:	AA 34-174	
Reactivity:	Human	
Host:	Mouse	
Clonality:	Monoclonal	
Conjugate:	This NPC1 antibody is un-conjugated	
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (IHC)	

#### **Product Details**

Immunogen:	Purified recombinant fragment of human NPC1 (AA: 34-174) expressed in E. coli.
Clone:	8D10B6
Isotype:	lgG1
Purification:	purified

# Target Details

Target:	NPC1
Alternative Name:	NPC1 (NPC1 Products)
Background:	Description: 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.

Aliases: NPC

Molecular Weight: 142.2 kDa

Gene ID: 4864

HGNC: 4864

#### **Application Details**

Application Notes: ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000

4°C, -20°C for long term storage

Restrictions: For Research Use only

#### Handling

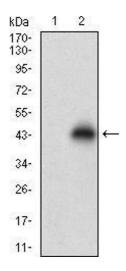
Format:	Liquid	
Buffer:	Purified antibody in PBS with 0.05 % sodium azide	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	
Storage:	4 °C/-20 °C	

#### **Publications**

Storage Comment:

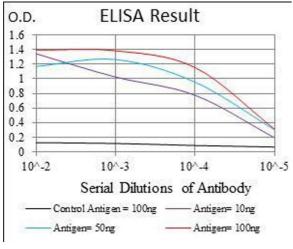
Product cited in:

Yoshida, Ishikawa, Niitsu, Nakazato, Watanabe, Shiraishi, Shiina, Hashimoto, Kanahara, Hasegawa, Enohara, Kimura, Iyo, Hashimoto: "Decreased serum levels of mature brain-derived neurotrophic factor (BDNF), but not its precursor proBDNF, in patients with major depressive disorder." in: **PLoS ONE**, Vol. 7, Issue 8, pp. e42676, (2012) (PubMed).



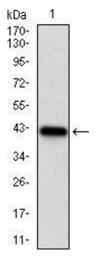
### Western Blotting

**Image 1.** Western blot analysis using NPC1 mAb against HEK293 (1) and NPC1 (AA: 34-174)-hlgGFc transfected HEK293 (2) cell lysate.



#### **ELISA**

Image 2. Black line: Control Antigen (100 ng), Purple line: Antigen(10 ng), Blue line: Antigen (50 ng), Red line: Antigen (100 ng),



## **Western Blotting**

**Image 3.** Western blot analysis using NPC1 mAb against human NPC1 recombinant protein. (Expected MW is 37.6 kDa)

Please check the product details page for more images. Overall 5 images are available for ABIN1724876.