

# Product Datasheet

## CNOT3 Antibody (4B8) - Azide and BSA Free H00004849-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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### Publications: 9

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Updated 2/21/2025 v.20.1

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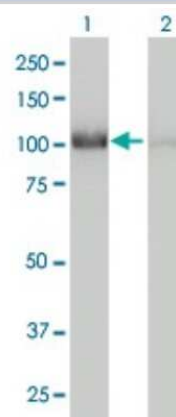
**H00004849-M01**

CNOT3 Antibody (4B8) - Azide and BSA Free

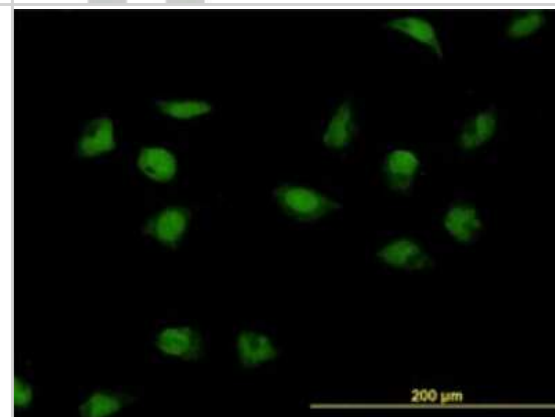
Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	4B8
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	4849
Gene Symbol	CNOT3
Species	Human, Mouse
Specificity/Sensitivity	CNOT3 - CCR4-NOT transcription complex, subunit 3
Immunogen	CNOT3 (NP_055331, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MADKRKLQGEIDRCLKKVSEGVEQFEDIWQKLHNAANANQKEKYEADLKKEIK KLQRLRDQIKTWVASNEIKDKRQLIDNRKLIETQMERFKVVERETKT
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500, ELISA, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation
Application Notes	Antibody reactivity against cell lysate, tissue lysate and recombinant protein for WB. It has been used for IF and ELISA. Knock Out Validation was reported in scientific literature (PMID: 27746116).

## Images

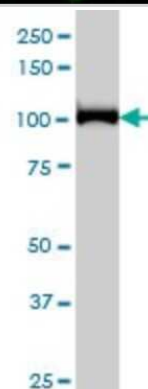
Western Blot: CNOT3 Antibody (4B8) [H00004849-M01] - Analysis of CNOT3 expression in transfected 293T cell line by CNOT3 monoclonal antibody (M01), clone 4B8. Lane 1: CNOT3 transfected lysate(82 KDa). Lane 2: Non-transfected lysate.



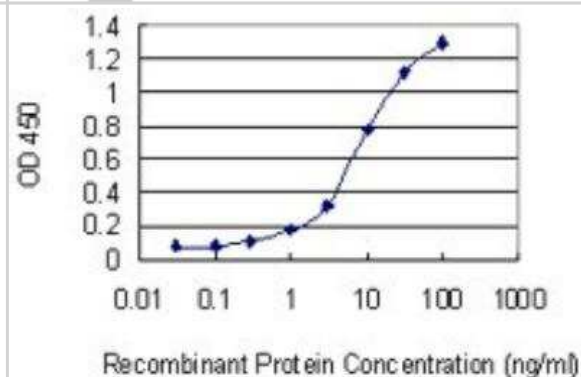
Immunocytochemistry/Immunofluorescence: CNOT3 Antibody (4B8) [H00004849-M01] - Analysis of monoclonal antibody to CNOT3 on HeLa cell. Antibody concentration 10 ug/ml.



Western Blot: CNOT3 Antibody (4B8) [H00004849-M01] - CNOT3 monoclonal antibody (M01), clone 4B8 Analysis of CNOT3 expression in Hela S3 NE.



ELISA: CNOT3 Antibody (4B8) [H00004849-M01] - Detection limit for recombinant GST tagged CNOT3 is 0.3 ng/ml as a capture antibody.



## Publications

Shirai YT, Mizutani A, Nishijima S et al. CNOT3 targets negative cell cycle regulators in non-small cell lung cancer development. *Oncogene* 2018-12-10 [PMID: 30531840]

Yamaguchi T, Suzuki T, Sato T et al. The CCR4-NOT deadenylase complex controls Atg7-dependent cell death and heart function. *Sci Signal* 2018-02-06 [PMID: 29438013]

Zheng X, Yang P, Lackford B et al. CNOT3-Dependent mRNA Deadenylation Safeguards the Pluripotent State. *Stem Cell Reports* 2016-11-08 [PMID: 27746116]

Cejas P, Cavazza A, Yandava CN et al. Transcriptional Regulator CNOT3 Defines an Aggressive Colorectal Cancer Subtype. *Cancer Res* 2017-02-01 [PMID: 27899379] (Human)

Doidge R, Mittal S, Aslam A, Winkler GS. The Anti-Proliferative Activity of BTG/TOB Proteins Is Mediated via the Caf1a (CNOT7) and Caf1b (CNOT8) Deadenylase Subunits of the Ccr4-Not Complex. *PLoS One*. 2012-12-07 [PMID: 23236473]

Kamon M, Katano M, Hiraki-Kamon K et al. Identification of Ccr4-Not complex components as regulators of transition from partial to genuine induced pluripotent stem cells. *Stem Cells Dev*. 2013-11-08 [PMID: 24200330]

Inoue T, Morita M, Hijikata A et al. CNOT3 contributes to early B cell development by controlling Igh rearrangement and p53 mRNA stability. *J Exp Med*. 2015-08-03 [PMID: 26238124]

Aslam A, Mittal S, Koch F et al. The Ccr4-NOT deadenylase subunits CNOT7 and CNOT8 have overlapping roles and modulate cell proliferation. *Mol Biol Cell* 20(17):3840-50. 2009-09-01 [PMID: 19605561]

Hu G, Kim J, Xu Q et al. A genome-wide RNAi screen identifies a new transcriptional module required for self-renewal. *Genes Dev* 23(7):837-48. 2009-04-01 [PMID: 19339689]





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### **Products Related to H00004849-M01**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP1-82971PEP	CNOT3 Recombinant Protein Antigen

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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