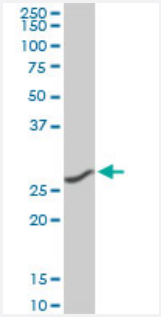
CNOT7 monoclonal antibody (M01), clone 2F6

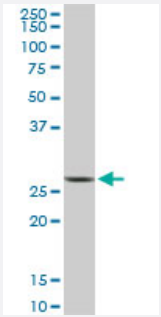
Catalog # H00029883-M01 Size 100 ug

Applications



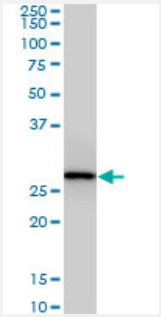
Western Blot (Cell lysate)

CNOT7 monoclonal antibody (M01), clone 2F6. Western Blot analysis of CNOT7 expression in PC-12 (Cat # L012V1).



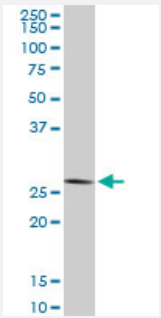
Western Blot (Cell lysate)

CNOT7 monoclonal antibody (M01), clone 2F6. Western Blot analysis of CNOT7 expression in NIH/3T3 (Cat # L018V1).



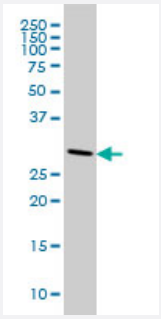
Western Blot (Cell lysate)

CNOT7 monoclonal antibody (M01), clone 2F6. Western Blot analysis of CNOT7 expression in Hela S3 NE (Cat # L013V3).



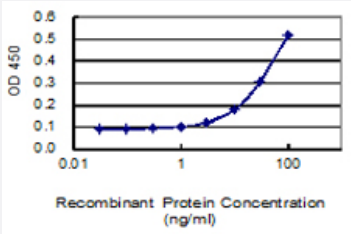
Western Blot (Cell lysate)

CNOT7 monoclonal antibody (M01), clone 2F6. Western Blot analysis of CNOT7 expression in Raw 264.7 (Cat # L024V1).



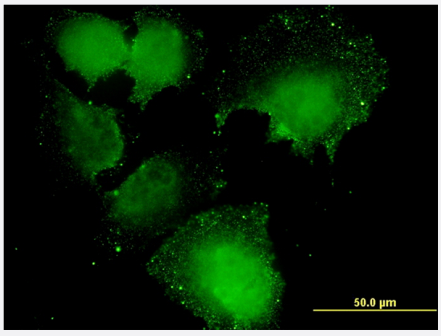
Western Blot (Cell lysate)

CNOT7 monoclonal antibody (M01), clone 2F6 Western Blot analysis of CNOT7 expression in HeLa (Cat # L013V1).



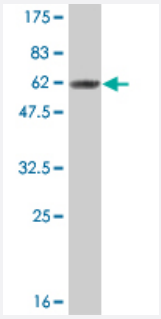
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CNOT7 is 3 ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to CNOT7 on HeLa cell. [antibody concentration 40 ug/ml]



Western Blot detection against Immunogen (57.09 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant CNOT7.
Immunogen	CNOT7 (AAH60852, 1 a.a. ~ 285 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence	MPAATVDHSQRICEVWACNLDEEMKKIRQVIRKYNYVAMDTEFPGVVARPIGEFRSNADYQYQLL RCNVDLLKIIQLGLTFMNEQGEYPPGTSTWQFNFKFNLTEDMYAQDSIELLTTSGIQFKKHEEEGIE TQYFAELLMTSGVVLCEGVKWLSFHSGYDFGYLIKILTNSNLPEEELDFFEILRLFFPVIYDVKYLMK SCKNLKGGLQEVAEQLELERIGPQHQAGSDSLLTGMAFFKMREMFFEDHIDDAKYCGHLYGLGS GSSYVQNGTGNAYEEEANKQS
Host	Mouse
Reactivity	Human, Mouse, Rat
Interspecies Antigen Sequence	Mouse (99); Rat (99)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (57.09 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

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  Protocol Download

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  Protocol Download

- Western Blot (Recombinant protein)

  Protocol Download

- Sandwich ELISA (Recombinant protein)

  Detection limit for recombinant GST tagged CNOT7 is 3 ng/ml as a capture antibody.

  Protocol Download

- ELISA

- Immunofluorescence

  Immunofluorescence of monoclonal antibody to CNOT7 on HeLa cell. [antibody concentration 40 ug/ml]

Gene Info — CNOT7

Entrez GeneID	29883
GeneBank Accession#	BC060852
Protein Accession#	AAH60852
Gene Name	CNOT7
Gene Alias	CAF1, hCAF-1
Gene Description	CCR4-NOT transcription complex, subunit 7
Omim ID	604913
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene binds to an anti-proliferative protein, B-cell translocation protein 1, which negatively regulates cell proliferation. Binding of the two proteins, which is driven by phos phorylation of the anti-proliferative protein, causes signaling events in cell division that lead to cha nges in cell proliferation associated with cell-cell contact. The protein has both mouse and yeast o rthologs. Alternate splicing of this gene results in two transcript variants encoding different isoform s. [provided by RefSeq
Other Designations	BTG1 binding factor 1|carbon catabolite repressor protein (CCR4)-associative factor 1

Publication Reference

- Regulation of CCR4-NOT complex deadenylase activity and cellular responses by MK2-dependent phosphorylation of CNOT2.

  Toru Suzuki, Miyuki Hoshina, Saori Nishijima, Naosuke Hoshina, Chisato Kikuguchi, Takumi Tomohiro, Akira Fukao, Toshinobu Fujiwara, and Tadashi Yamamoto.

  RNA Biology 2022 Jan; 19(1):234.

  Application: WB, Human, HeLa cells

- Neuronal XRN1 is required for maintenance of whole-body metabolic homeostasis.

  Shohei Takaoka, Akiko Yanagiya, Haytham Mohamed Aly Mohamed, Rei Higa, Takaya Abe, Ken-Ichi Inoue, Akinori Takahashi, Patrick Stoney, Tadashi Yamamoto.

  iScience 2021 Sep; 24(10):103151.

  Application: WB-Ti, Mouse, Mouse hypothalamus

- PABP Cooperates with the CCR4-NOT Complex to Promote mRNA Deadenylation and Block Precocious Decay.

  Yi H, Park J, Ha M, Lim J, Chang H, Kim VN.

  Molecular Cell 2018 Jun; 70(6):1081.

  Application: WB-Tr, Human, HeLa cells

- Phase Transitions in the Assembly and Function of Human miRISC.

  Sheu-Gruttadauria J, MacRae IJ.

  Cell 2018 May; 173(4):946.

  Application: WB-Ce, Human, HEK 293 cells

- CNOT3 contributes to early B cell development by controlling Igh rearrangement and p53 mRNA stability.

  Inoue T, Morita M, Hijikata A, Fukuda-Yuzawa Y, Adachi S, Isono K, Ikawa T, Kawamoto H, Koseki H, Natsume T, Fukao T, Ohara O, Yamamoto T, Kurosaki T.

  The journal of Experimental Medicine 2015 Aug; 212(9):1465.

  Application: WB-Ce, Mouse, Bone marrow cells(pre-pro-B, pro-B, pre-B, immature B), recirculating B cells

- miRNA repression involves GW182-mediated recruitment of CCR4-NOT through conserved W-containing motifs.

  Chekulaeva M, Mathys H, Zipprich JT, Attig J, Colic M, Parker R, Filipowicz W.

  Nature Structural & Molecular Biology 2011 Oct; 18(11):1218.

  Application: WB-Tr, Human, HEK293T cells

Pathway

- RNA degradation