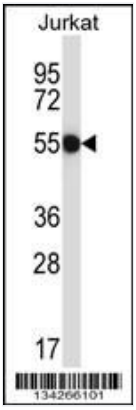
# CNOT2 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | CNOT2, Polyclonal Antibody |
| **Full Product Name** | CNOT2, ID (CNOT2, CDC36, NOT2, CCR4-NOT transcription complex subunit 2, CCR4-associated factor 2) (FITC) |
| **Product Gene Name** | anti-CNOT2 antibody |
| **Product Synonym Names** | CNOT2; CDC36; NOT2; CCR4-NOT transcription complex subunit 2; CCR4-associated factor 2 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC). |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **Molecular Weight** | 54,306 Da |
| **OMIM** | 604909 |
| **3D Structure** | ModBase 3D Structure for Q9NZN8 |
| **Immunogen** | CNOT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 271-301 amino acids from the Central region of human CNOT2. |
| **Conjugate** | FITC |
| **Note** | Preservative Free |
| **Special Handling** | Light sensitive |
| **Product Categories/Family for anti-CNOT2 antibody** | Antibodies; Transcription Factors |
| **Applications Tested/Suitable for anti-CNOT2 antibody** | Western Blot (WB), FLISA |
| **Application Notes for anti-CNOT2 antibody** | WB: 1:100-500<br>FLISA: 1:1,000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-CNOT2 antibody** | This gene encodes a subunit of the multi-component CCR4-NOT complex. The CCR4-NOT complex regulates mRNA synthesis and degradation and is also thought to be involved in mRNA splicing, transport and localization. The encoded protein interacts with histone deacetylases and functions as a repressor of polymerase II transcription. Alternatively spliced transcript variants have been observed for this gene. |
| **Product References and Citations for anti-CNOT2 antibody** | Lau, N.C., et al. Biochem. J. 422(3):443-453(2009). Miyasaka, T., et al. Cancer Sci. 99(4):755-761(2008). Morita, M., et al. Mol. Cell. Biol. 27(13):4980-4990(2007). Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007). Matsuoka, S., et al. Science 316(5828):1160-1166(2007). |

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| **Other Notes** | Small volumes of anti-CNOT2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for CNOT2 purchase** | MBS6287276 is an antibody targeting CNOT2. Also known as CNOT2, ID (CNOT2, CDC36, NOT2, CCR4-NOT transcription complex subunit 2, CCR4-associated factor 2) (FITC). Reactive in Human. Host: Rabbit. |




**Western Blot (WB) of anti-CNOT2 antibody**
CNOT2 Antibody (Center) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the CNOT2 antibody detected the CNOT2 protein (arrow).

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CNOT2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 313482816 |
| **NCBI GeneID** | 4848 |
| **NCBI Accession #** | NP_055330.1 |
| **UniProt Primary Accession #** | Q9NZN8 |
| **UniProt Secondary Accession #** | Q9H3E0; Q9NSX5; Q9NWR6; Q9P028 |
| **UniProt Related Accession #** | Q9NZN8 |
| **GenBank Nucleotide #** | NM_014515 |
| **NCBI Official Full Name** | Homo sapiens CCR4-NOT transcription complex, subunit 2 (CNOT2), transcript variant 2, mRNA |
| **NCBI Official Synonym Full Names** | CCR4-NOT transcription complex, subunit 2 |
| **NCBI Official Symbol** | CNOT2 |
| **NCBI Official Synonym Symbols** | NOT2; CDC36; NOT2H; HSPC131 |
| **UniProt Protein Name** | CCR4-NOT transcription complex subunit 2 |
| **UniProt Synonym Protein Names** | CCR4-associated factor 2 |
| **Protein Family** | CCR4-NOT transcription complex |
| **UniProt Gene Name** | CNOT2 |
| **UniProt Synonym Gene Names** | CDC36; NOT2 |
| **UniProt Entry Name** | CNOT2_HUMAN |
| **NCBI Protein Information** | CCR4-NOT transcription complex subunit 2; CCR4-associated factor 2; negative regulator of transcription 2 |

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| **UniProt Comments for CNOT2** | NOT2: The CCR4-NOT complex functions as general transcription regulation complex. Subunit of the CCR4-NOT core complex that contains CHAF1A, CHAF1B, CNOT1, CNOT2, CNOT3, CNOT4, CNOT6 and CNOT8. Ubiquitous. Highly expressed in brain, heart, thymus, spleen, kidney, liver, small intestine, placenta, lung and peripheral blood leukocytes. Belongs to the CNOT2/3/5 family. 5 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Transcription, coactivator/corepressor<br><br>Chromosomal Location of Human Ortholog: 12q15<br><br>Cellular Component: membrane; cytoplasm; nucleus; cytosol; CCR4-NOT complex<br><br>Molecular Function: protein binding; poly(A)-specific ribonuclease activity<br><br>Biological Process: regulation of transcription from RNA polymerase II promoter; regulation of translation; transcription from RNA polymerase II promoter; poly(A) tail shortening; gene expression; RNA-mediated gene silencing; negative regulation of transcription from RNA polymerase II promoter; negative regulation of estrogen receptor signaling pathway; mRNA catabolic process, deadenylation-dependent decay; trophectodermal cell differentiation |
| **Research Articles on CNOT2** | **1.** The CNOT2-CNOT3 heterodimer is stabilized and tightly anchored to the surface of CNOT1 through an unexpected intertwined arrangement of peptide regions lacking defined secondary structure. |
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