# Cyclin E2 (CCNE2) Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

| | |
|---|---|
| **Product Name** | Cyclin E2 (CCNE2), Polyclonal Antibody |
| **Full Product Name** | Cyclin E2 (G1/S-specific Cyclin-E2, CCNE2) (MaxLight 550) |
| **Product Gene Name** | anti-CCNE2 antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550. |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Specificity** | Recognizes human CCNE2. Species Crossreactivity: mouse. |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo |
| **Molecular Weight** | 46,757 Da |
| **Chromosome Location** | Chromosome: 8; NC_000008.10 (95892452..95907482, complement). Location: 8q22.1 |
| **OMIM** | 603775 |
| **3D Structure** | ModBase 3D Structure for O96020 |
| **Immunogen** | Full length human CCNE2, aa1-404 (NP_477097.1). |
| **Immunogen Sequence** | MSRRSSRLQAKQQPQPSQTESPQEAQIIQAKKRKTTQDVKKRREEVTKKHQYEIRNCWPPVLSGGISPCIIIETPHKEIGTSDFSRFTNYRFKNLFINPSPLI |
| **Conjugate** | MaxLight550 |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-CCNE2 antibody** | Antibodies; Cyclin |
| **Applications Tested/Suitable for anti-CCNE2 antibody** | Western Blot (WB) |
| **Application Notes for anti-CCNE2 antibody** | Applications are based on unconjugated antibody. |

| | |
|---|---|
| **Related Product Information for anti-CCNE2 antibody** | Cyclin E2, a 404aa protein, is a member of highly conserved E-type G1-cyclin family. Cyclins bind to and activate CDK kinases to form serine/threonine abnormally up-regulated in certain tumors suggesting a possible therapeutic intervention. |
| **Other Notes** | Small volumes of anti-CCNE2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces |
| **Searchable Terms for CCNE2 purchase** | MBS6372670 is an antibody targeting CCNE2. Also known as Cyclin E2 (G1/S-specific Cyclin-E2, CCNE2) (MaxLight 550). Reactive in Human, Mouse |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CCNE2. It may not necessarily be applicable to this product.

| | |
|---|---|
| **NCBI GI #** | 17318565 |
| **NCBI GeneID** | 9134 |
| **NCBI Accession #** | NP_477097.1 |
| **UniProt Primary Accession #** | O96020 |
| **UniProt Secondary Accession #** | O95439 |
| **UniProt Related Accession #** | O96020 |
| **GenBank Nucleotide #** | NM_057749 |
| **NCBI Official Full Name** | G1/S-specific cyclin-E2 |
| **NCBI Official Synonym Full Names** | cyclin E2 |
| **NCBI Official Symbol** | CCNE2 |
| **NCBI Official Synonym Symbols** | CYCE2 |
| **UniProt Protein Name** | G1/S-specific cyclin-E2 |
| **Protein Family** | G1/S-specific cyclin |
| **UniProt Gene Name** | CCNE2 |
| **UniProt Entry Name** | CCNE2_HUMAN |
| **NCBI Protein Information** | G1/S-specific cyclin-E2 |
| **NCBI Summary for CCNE2** | The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with and functions as a regulatory subunit of CDK2. This cyclin has been shown to specifically interact with CIP/KIP family of CDK inhibitors, and plays a role in cell cycle G1/S transition. The expression of this gene peaks at the G1-S phase and exhibits a pattern of tissue specificity distinct from that of cyclin E1. A significantly increased expression level of this gene was observed in tumor-derived cells. [provided by RefSeq, Jul 2008] |

| | |
|---|---|
| **UniProt Comments for CCNE2** | CCNE2: Essential for the control of the cell cycle at the late G1 and early S phase. Interacts with the CDK2 (in vivo) and CDK3 (in vitro) protein kinases to form a serine/threonine kinase holoenzyme complex. The cyclin subunit imparts substrate specificity to the complex. Activated by papilloma viral oncoproteins E6 and E7 which bind to and inactivate p53 and Rb, respectively. According to PubMed:9858585, highest levels of expression in adult testis, thymus and brain. Lower levels in placenta, spleen and colon. Consistently elevated levels in tumor- derived cells compared to non-transformed proliferating cells. According to PubMed:9840927: low levels in thymus, prostate, brain, skeletal muscle, and kidney. Elevated levels in lung. According to PubMed:9840943 highly expressed in testis, placenta, thymus and brain. In a lesser extent in small intestine and colon. Belongs to the cyclin family. Cyclin E subfamily. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Cell cycle regulation; Activator<br><br>Chromosomal Location of Human Ortholog: 8q22.1<br><br>Cellular Component: nucleoplasm; cytosol<br><br>Molecular Function: protein binding; cyclin-dependent protein kinase regulator activity<br><br>Biological Process: DNA replication initiation; cell division; mitotic cell cycle; regulation of cyclin-dependent protein kinase activity; cell cycle checkpoint; G1/S transition of mitotic cell cycle |
| **Research Articles on CCNE2** | **1.** protein and mRNA expressions of Cyclin E2 in nasopharyngeal carcinoma |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
| **Disclaimer** | While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice.<br><br>It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information. |
| **Product Note** | Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details. |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures.

**MyBioSource** | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-ccne2-human-mouse-antibody/cyclin-e2/6372670