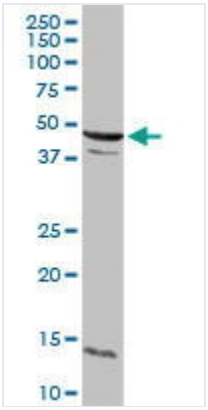
Cyclin E2 (CCNE2) Antibody – Rabbit Polyclonal

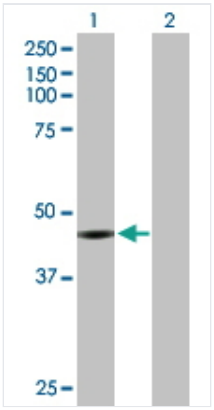
PRODUCT OVERVIEW

Product Name	Cyclin E2 (CCNE2), Polyclonal Antibody
Full Product Name	Cyclin E2 (G1/S-specific Cyclin-E2, CCNE2) (PE)
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 R-Phycoerythrin (PE).
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	PE
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	MBS6372673 is an antibody targeting CCNE2. Also known as Cyclin E2 (G1/S-specific Cyclin-E2, CCNE2) (PE). Reactive in Human, Mouse. Host: Ra



Western Blot (WB) of anti-CCNE2 antibody
CCNE2 rabbit polyclonal antibody. Western Blot analysis of CCNE2 expression in mouse liver.



Western Blot (WB) of anti-CCNE2 antibody
Western Blot analysis of CCNE2 expression in transfected 293T cell line by CCNE2 polyclonal antibody. Lane 1: CCNE2 transfected lysate (46.8kD). Lane 2: Non-transfected lysate.

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. Protein type: Cell cycle regulation; Activator Chromosomal Location of Human Ortholog: 8q22.1 Cellular Component: nucleoplasm; cytosol Molecular Function: protein binding; cyclin-dependent protein kinase regulator activity 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
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