

Cyclin E2 Polyclonal Antibody

Catalog No: YT1179

Reactivity: Human; Mouse

Applications: WB;IHC;IF;ELISA

Target: Cyclin E2

Fields: >>Cell cycle;>>Oocyte meiosis;>>p53 signaling pathway;>>PI3K-Akt signaling

pathway;>>Cellular senescence;>>Cushing syndrome;>>Hepatitis

B;>>Measles;>>Human papillomavirus infection;>>Human T-cell leukemia virus 1

infection;>>Epstein-Barr virus infection;>>Pathways in cancer;>>Viral

carcinogenesis;>>MicroRNAs in cancer;>>Prostate cancer;>>Small cell lung

cancer;>>Gastric cancer

Gene Name: CCNE2

Protein Name: G1/S-specific cyclin-E2

O96020

Q9Z238

Human Gene Id: 9134

Human Swiss Prot

No:

Mouse Gene Id: 12448

Mouse Swiss Prot

No:

Immunogen: The antiserum was produced against synthesized peptide derived from human

Cyclin E2. AA range:355-404

Specificity: Cyclin E2 Polyclonal Antibody detects endogenous levels of Cyclin E2 protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not

yet tested in other applications.



Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 46kD

Cell Pathway: Cell_Cycle_G1S;Cell_Cycle_G2M_DNA;Oocyte meiosis;p53;Pathways in

cancer; Prostate cancer; Small cell lung cancer;

Background: 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],

Function: function:Essential for the control of the cell cycle at the late G1 and early S

phase.,induction:Activated by papilloma viral oncoproteins E6 and E7 which bind to and inactivate p53 and Rb, respectively.,PTM:Phosphorylation by CDK2 triggers its release from CDK2 and degradation via the ubiquitin proteasome pathway.,similarity:Belongs to the cyclin family.,similarity:Belongs to the cyclin family. Cyclin E subfamily.,subunit: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.,tissue

specificity: According to PubMed: 9858585: highest levels 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 i

Subcellular Location : Nucleus.

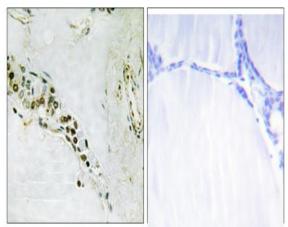
Expression:

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.

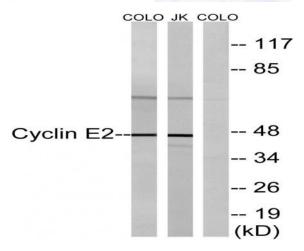
Products Images



Immunofluorescence analysis of NIH/3T3 cells, using Cyclin E2 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human thyroid gland tissue, using Cyclin E2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from COLO and Jurkat cells, using Cyclin E2 Antibody. The lane on the right is blocked with the synthesized peptide.