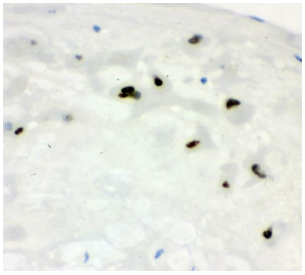
CCNE1 Antibody / Cyclin E1 (RQ5964)

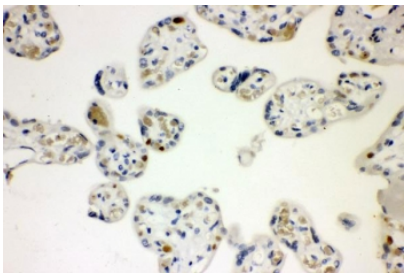
Catalog No.	Formulation	Size
RQ5964	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

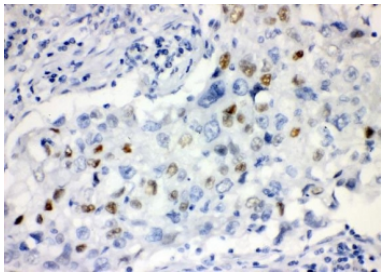
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P24864
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry: 1-2ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This CCNE1 antibody is available for research use only.



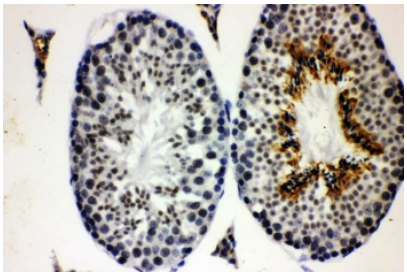
CCNE1 Antibody Placenta IHC. Immunohistochemistry staining of FFPE human placenta with CCNE1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



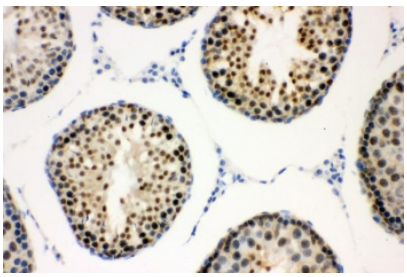
CCNE1 Antibody Placental Tissue IHC. Immunohistochemistry staining of FFPE human placenta with CCNE1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



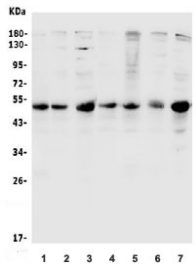
CCNE1 Antibody Lung Cancer IHC. Immunohistochemistry staining of FFPE human lung cancer with CCNE1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



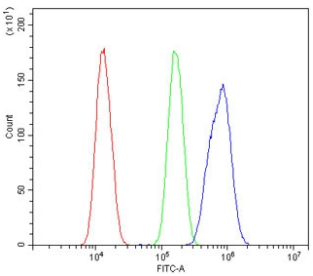
CCNE1 Antibody Mouse Testis IHC. Immunohistochemistry staining of FFPE mouse testis with CCNE1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



CCNE1 Antibody Rat Testis IHC. Immunohistochemistry staining of FFPE rat testis with CCNE1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



CCNE1 Antibody WB. Western blot testing of human 1) HeLa, 2) HepG2, 3) K562, 4) U-2 OS, 5) A549, 6) PANC-1 and 7) Caco-2 antibody with CCNE1 antibody. Predicted molecular weight ~47 kDa.



CCNE1 Antibody FACS. Flow cytometry testing of human SiHa cells with CCNE1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CCNE1 antibody.

Description

CCNE1 Antibody specifically detects G1/S-specific cyclin-E1, a protein that in humans is encoded by the CCNE1 gene. It is mapped to 19q12. 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, whose activity is required for cell cycle G1/S transition. This protein accumulates at the G1-S phase boundary and is degraded as cells progress through S phase. Overexpression of this gene has been observed in many tumors, which results in chromosome instability, and thus may contribute to tumorigenesis. This protein was found to associate with, and be involved in, the phosphorylation of NPAT protein (nuclear protein mapped to the ATM locus), which participates in cell-cycle regulated histone gene expression and plays a critical role in promoting cell-cycle progression in the absence of pRB.

Explore our Cyclin E1 Antibody / G1-S Cell Cycle Regulator Antibody page for additional validation data and applications involving cell cycle progression, DNA replication, and cellular proliferation.

Application Notes

Optimal dilution of the CCNE1 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids R3-A386) was used as the immunogen for the CCNE1 antibody.

Storage

After reconstitution, the CCNE1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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