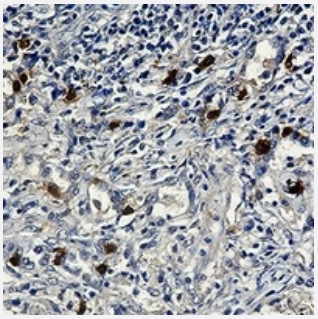
RecomAb™

CCNE2 recombinant monoclonal antibody

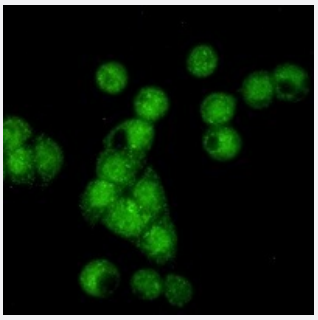
Catalog # RAB02487 Size 100 uL

Applications



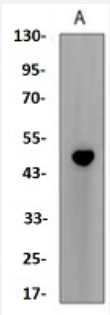
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of human lung cancer formalin fixed paraffin embedded tissue section using Cyclin E2 recombinant monoclonal antibody (Cat # RAB02487). The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.80). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescence

Immunofluorescent analysis of MCF7 cells with Cyclin E2 recombinant monoclonal antibody (Cat # RAB02487). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.



Western Blot (Cell lysate)

Western blot analysis of Jurkat (A) whole cell lysates with Cyclin E2 recombinant monoclonal antibody (Cat # RAB02487).

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Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human CCNE2.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide of human Cyclin E2.
Theoretical MW (kDa)	48
Reactivity	Human
Specificity	Recognizes endogenous levels of Cyclin E2 protein.
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Immunogen affinity chromatography
Isotype	IgG
Recommend Usage	Immunocytochemistry (1:50-1:100) Immunofluorescence (1:50-1:100) Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50mM Tris-Glycine, pH 7.4 (0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical analysis of human lung cancer formalin fixed paraffin embedded tissue section using Cyclin E2 recombinant monoclonal antibody (Cat # RAB02487). The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.80). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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- Immunofluorescence

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- Immunocytochemistry

- Western Blot (Cell lysate)

  Western blot analysis of Jurkat (A) whole cell lysates with Cyclin E2 recombinant monoclonal antibody (Cat # RAB02487).

Gene Info — CCNE2

Entrez GeneID	9134
Protein Accession#	O96020
Gene Name	CCNE2
Gene Alias	CYCE2
Gene Description	cyclin E2
Omim ID	603775
Gene Ontology	Hyperlink
Gene Summary	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 fu nction 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 co mplex with and functions as a regulatory subunit of CDK2. This cyclin has been shown to specifica lly 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 distin ct from that of cyclin E1. A significantly increased expression level of this gene was observed in tu mor-derived cells. [provided by RefSeq
Other Designations	G1/S-specific cyclin E2

Pathway

- Cell cycle

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- p53 signaling pathway
- Pathways in cancer
- Prostate cancer
- Small cell lung cancer

Disease

- Genetic Predisposition to Disease
- Ovarian Neoplasms

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