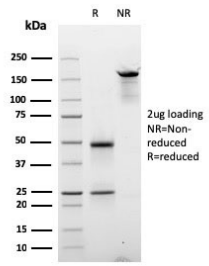
Cyclin E1 Antibody Mouse Monoclonal / CCNE1 [clone CCNE1/2587] (V8192)

Catalog No.	Formulation	Size
V8192-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8192-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8192SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG
Clone Name	CCNE1/2587
Purity	Protein G affinity chromatography
UniProt	P24864
Applications	ELISA (order BSA-free Format For Coating) :
Limitations	This Cyclin E1 antibody is available for research use only.



SDS-PAGE analysis of purified, BSA-free Cyclin E1 antibody (clone CCNE1/2587) as confirmation of integrity and purity.

Description

Cyclin E1 antibody recognizes Cyclin E1, a nuclear cell cycle regulator encoded by the CCNE1 gene. Also known as

G1-S specific cyclin E1 and Cyclin E, this protein forms an active complex with cyclin-dependent kinase 2 to drive progression from the G1 phase into S phase of the cell cycle. Cyclin E1 antibody is widely used in research investigating cell proliferation, DNA replication control, and oncogenic cell cycle dysregulation.

Cyclin E1 accumulates during late G1 phase and reaches peak expression at the G1-S transition, where it promotes phosphorylation of substrates required for DNA synthesis initiation. The protein contains conserved cyclin box domains that mediate binding to CDK2 and regulate kinase activation. Cyclin E1 is predominantly localized to the nucleus, reflecting its role in coordinating replication origin firing and S phase entry. Tight transcriptional and proteasomal control of CCNE1 ensures orderly cell cycle progression and genomic stability.

Overexpression or amplification of CCNE1 has been reported in multiple malignancies, including ovarian, breast, lung, and gastric cancers. Elevated Cyclin E1 levels are frequently associated with increased proliferative activity and tumor progression. Immunostaining typically demonstrates strong nuclear localization in actively cycling cells. Clone CCNE1/2587 is a mouse monoclonal antibody developed to detect Cyclin E1 in research applications focused on cell cycle analysis, tumor biology, and proliferation assessment.

Application Notes

Optimal dilution of the Cyclin E1 antibody should be determined by the researcher.

Immunogen

A recombinant human partial protein (amino acids 10-176) was used as the immunogen for this Cyclin E1 antibody.

Storage

Store the Cyclin E1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).