

## Cyclin E (G1/S-Phase Cyclin) Antibody

Mouse Monoclonal Antibody [Clone CCNE1/2460]

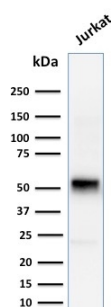
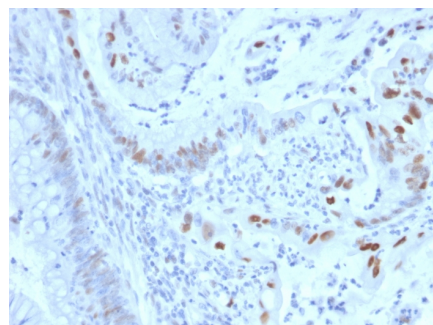
Catalog No	Format	Size
898-MSM1-P0	Purified Ab with BSA and Azide	200ug/ml
898-MSM1-P1	Purified Ab with BSA and Azide	200ug/ml
898-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide	1.0mg/ml

Applications	Tested Dillution
Flow Cytometry (Flow)	1-2ug/million cells
Immunofluorescence (IF)	1-3ug/ml
Immunohistochemistry (IHC)	1-2ug/ml
Western Blot (WB)	2-4ug/ml

Product Details	
Clone	CCNE1/2460
Gene Name	CCNE1
Immunogen	Recombinant human Cyclin E (CCNE1) protein fragment (around aa 10-176) (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	53kDa
Cellular Localization	Nucleus
Species Reactivity	Human
Positive Control	Jurkat, MCF-7 or HeLa cells. Human breast or colon carcinoma.

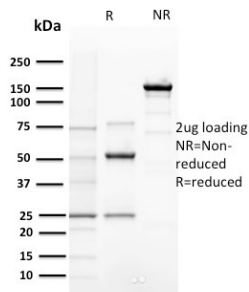
*\*Optimal dilution for a specific application should be determined.*

### Product Images for Cyclin E (G1/S-Phase Cyclin) Antibody

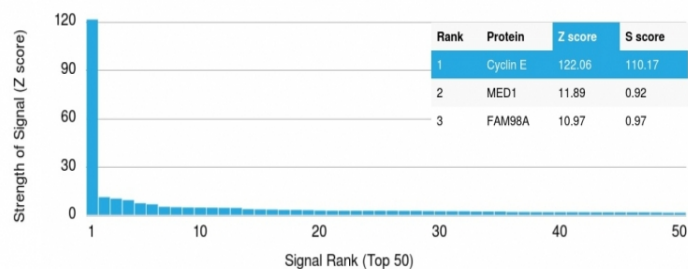


Formalin-fixed, paraffin-embedded human colon carcinoma stained with Cyclin E Mouse Monoclonal Antibody (CCNE1/2460).

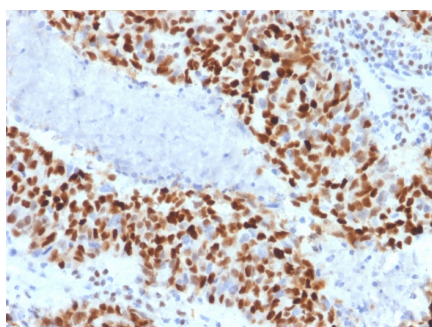
Western Blot Analysis of human Jurkat cell lysate using Cyclin E Mouse Monoclonal Antibody (CCNE1/2460).



SDS-PAGE Analysis of Purified Cyclin E Mouse Monoclonal Antibody (CCNE1/2460). Confirmation of Purity and Integrity of Antibody.



Analysis of Protein Array containing more than 19,000 full-length human proteins using Cyclin E Mouse Monoclonal Antibody (CCNE1/2460). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Formalin-fixed, paraffin-embedded human colon carcinoma stained with Cyclin E Mouse Monoclonal Antibody (CCNE1/2460).

### Specificity & Comments

Cyclin E belongs to the highly conserved cyclin family, whose members exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. Cyclins function as regulators of CDK kinases. Cyclin E forms a complex with and functions as a regulatory subunit of CDK2, whose activity is required for cell cycle G1/S transition. Cyclin E accumulates at the G1-S phase boundary and is degraded as cells progress through S phase. Cyclin E overexpression has been observed in many tumors, which results in chromosome instability, and thus may contribute to tumorigenesis.

### Research Areas

Cardiovascular, Infectious Disease, Lung Cancer, Nuclear Marker, Signal Transduction, Transcription Factors

### Known Applications & Suggested Dilutions

Flow Cytometry (1-2ug/million cells) | Immunofluorescence (1-2ug/ml) | Western Blot (1-2ug/ml) | Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT), (Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 °C followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.

There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.