

Cyclin A2 (S- & G2-phase Cyclin) Antibody

Mouse Monoclonal Antibody [Clone E67]

Catalog No	Format	Size
890-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
890-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
890-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

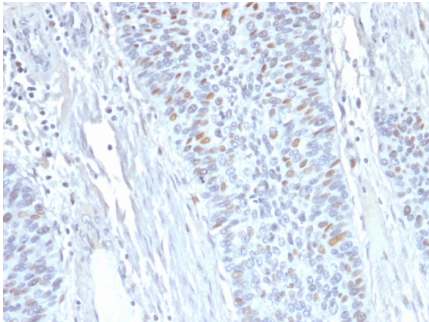
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

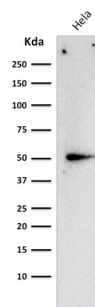
Clone	E67
Gene Name	CCNA2
Immunogen	Full length bovine Cyclin A protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2a / Kappa
Mol. Weight of Antigen	54kDa
Cellular Localization	Cytoplasm, Nucleus
Species Reactivity	African Green Monkey, Cow, Human, Mink (Mustela), Mouse
Positive Control	K-562 and HeLa cells. Human tonsil or lymph node.

*Optimal dilution for a specific application should be determined.

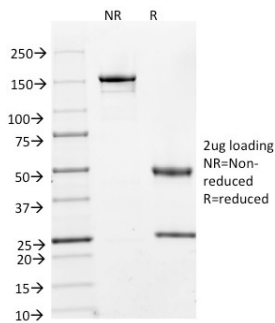
Product Images for Cyclin A2 (S- & G2-phase Cyclin) Antibody



Formalin-fixed, paraffin-embedded human Endometrium stained with Cyclin A2 Mouse Monoclonal Antibody (E67).



Western Blot Analysis of HeLa cell lysate using Cyclin A2 Mouse Monoclonal Antibody (E67).



SDS-PAGE Analysis of Purified Cyclin A2 Mouse Monoclonal Antibody (E67).
Confirmation of Integrity and Purity of Antibody.

Specificity & Comments

It recognizes a protein of 54kDa, which is identified as cyclin A. Its epitope is located amino acids 144-148 of human Cyclin A2. Cyclins are regulatory subunits of the cyclin-dependent kinases (cdk's) and they control transition at different specific phases of the cell cycle. The temporal expression of cyclins is tightly regulated and subsequently plays a critical role in controlling the enzymatic activity of cdk's. These cyclin/cdk complexes are essential for passage through specific stages in the cell cycle. In mammalian somatic cells, cyclin A is required for S-phase and passage through G2-phase. The D and E type cyclins regulate the passage of G1, while cyclin B is a critical regulator of mitosis. Mutation or disruption of normal cyclin A expression causes cells to arrest in G2-phase.

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.

Research Areas

Hypoxia, Nuclear Marker, Transcription Factors