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36-3441: Anti-Cyclin A2 (S- & G2-phase Cyclin) Monoclonal Antibody(Clone: E67)

Clonality: Monoclonal

Clone Name: E67

Application : FACS,IF,IHC **Reactivity :** Human, Mouse

 Gene :
 CCNA2

 Gene ID :
 890

 Uniprot ID :
 P20248

Alternative Name: CCN1, CCNA, CCNA2, CCNA2_HUMAN, Cyclin A2

Isotype: Mouse IgG2a, kappa

Immunogen Information: Full length bovine Cyclin A protein

Description

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.

Product Info

Amount : 20 μg / 100 μg

Content: 200 µg/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 condition:

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.

Application Note

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 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);

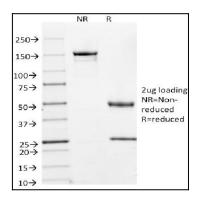


Fig. 1: SDS-PAGE Analysis Purified Cyclin A2 Mouse Monoclonal Antibody (E67). Confirmation of Integrity and Purity of Antibody.



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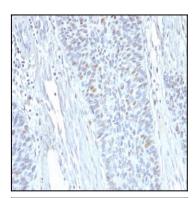


Fig. 2: Formalin-fixed, paraffin-embedded human Endometrium stained with Cyclin A2 Mouse Monoclonal Antibody (E67).

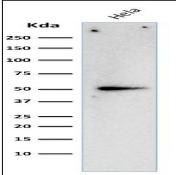


Fig. 3: Western Blot Analysis of HeLa cell lysate using Cyclin A2 Mouse Monoclonal Antibody (E67).