9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

36-3442: Anti-Cyclin A2 (S- & G2-phase Cyclin) Monoclonal Antibody(Clone: CCNA2/2333)

Clonality :	Monoclonal
Clone Name :	CCNA2/2333
Application :	IHC
Reactivity :	Human
Gene :	CCNA2
Gene ID :	890
Uniprot ID :	P20248
Alternative Name :	CCN1, CCNA, CCNA2, Cyclin A2
Isotype :	Mouse IgG2a, kappa
Immunogen Information :	Full length recombinant Cyclin A2 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 throÂµgh specific stages in the cell cycle. In mammalian somatic cells, cyclin A is required for S-phase and passage throÂµgh 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

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&degC followed by cooling at RT for 20 minutes);

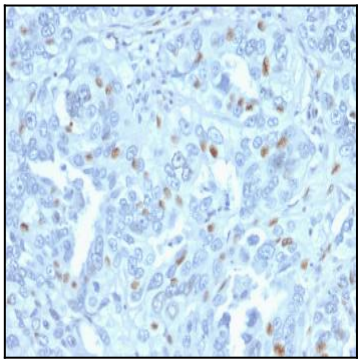

Fig. 1: Formalin-fixed, paraffin-embedded human Endometrial Carcinoma stained with Cyclin A2 Mouse Monoclonal Antibody (CCNA2/2333).

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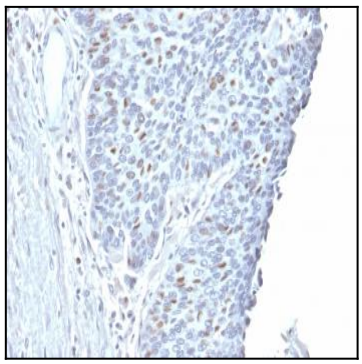

Fig. 2: Formalin-fixed, paraffin-embedded human Endometrial Carcinoma stained with Cyclin A2 Mouse Monoclonal Antibody (CCNA2/2333).

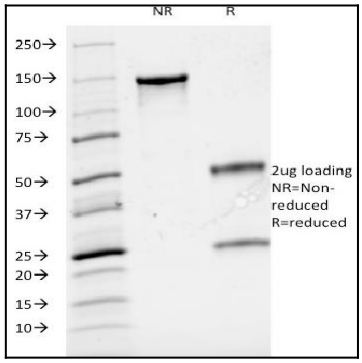

Fig. 3: SDS-PAGE Analysis Purified Cyclin A Mouse Monoclonal Antibody (CCNA2/2333). Confirmation of Integrity and Purity of Antibody.

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