

Cyclin A2 Monoclonal Antibody (E23.1)

Product Details

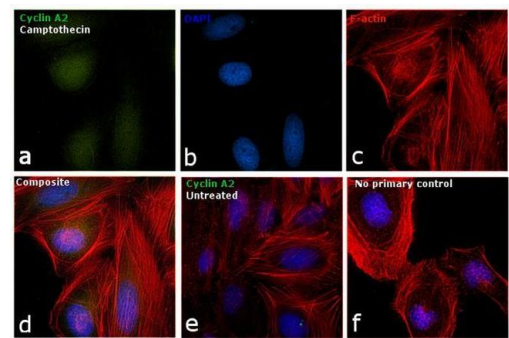
Size	100 µg
Species Reactivity	Bovine, Human, Mouse, Non-human primate, Rat
Published Species	Rat, Human
Host/Isotype	Mouse / IgG2a
Class	Monoclonal
Type	Antibody
Clone	E23.1
Conjugate	Unconjugated
Immunogen	Bovine Cyclin A fusion protein
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS with 1mg/mL BSA, 30% glycerol
Contains	0.05% sodium azide
Storage conditions	-20°C
RRID	AB_2536862

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	6 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:500	-
Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent	-
Immunocytochemistry (ICC/IF)	1:50	-
Immunoprecipitation (IP)	1 µg	-

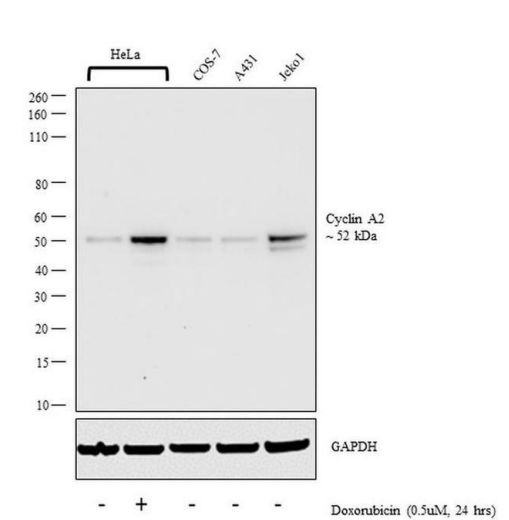
Product Specific Information

MA1-154 detects Cyclin A in mammalian samples and has been successfully used in Immunohistochemistry (Frozen and Paraffin), Immunofluorescence, Immunoprecipitation and Western Blot procedures. Immunoprecipitation and Western Blot analysis with MA1-154 show the accumulation of a prominent band at ~50 kDa in camptothecin and hydroxyurea treated cells. In Immunofluorescence applications, MA1-154 shows nuclear translocation of Cyclin A in G2/M arrested cells as a result of camptothecin treatment.

Product Images For Cyclin A2 Monoclonal Antibody (E23.1)



Cyclin A2 Antibody (MA1-154)
Altered expression of target protein upon cell treatment demonstrates antibody specificity. Immunofluorescence of Cyclin A2 using with Cyclin A2 Monoclonal Antibody (E23.1) (Product # MA1-154) shows an increase and translocation to the nucleus upon treatment with Camptothecin. {TM}



Cyclin A2 Antibody (MA1-154) in WB
Western blot analysis was performed on whole cell extract (30 µg lysate) of HeLa (Lane 1), HeLa treated with doxorubicin (0.5uM, 24 hrs) (Lane 2), COS-7 (Lane 3), A431 (Lane 4) and Jeko1(Lane 5). The blot was probed with Anti-Cyclin A2 Monoclonal Antibody (E23.1) (Product # MA1-154, 1:1000 dilution) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg/ml, 1:4000 dilution). A 52 kDa band corresponding to Cyclin A2 was observed in all cell the lines tested and was increased upon Doxorubicin treatment.

Cyclin A2 Antibody (MA1-154) in ICC/IF
Immunofluorescence analysis of Cyclin A2 was performed using 70% confluent log phase HeLa cells treated with Camptothecin (100nM, 16 hrs). The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with Cyclin A2 Monoclonal Antibody (Product # MA1-154) at 1:50 dilution in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing accumulation of Cyclin A2 in the nucleus upon treatment. Panel e represents the control cells showing cytoplasmic staining. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

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Western Blot (6)

International journal of molecular sciences	Year 2021
Lysophosphatidic Acid Mediates Imiquimod-Induced Psoriasis-like Symptoms by Promoting Keratinocyte Proliferation through LPAR1 /ROCK2/PI3K/AKT Signaling Pathway.	
"Published figure using Cyclin A2 monoclonal antibody (Product # MA1-154) in Western Blot"	
Authors: Kim D, Kim HJ, Baek JO, Roh JY, Jun HS	
Oncotarget	Year 2018
Survivin as a potential therapeutic target of acetylsalicylic acid in pituitary adenomas.	Species Rat
"Published figure using Cyclin A2 monoclonal antibody (Product # MA1-154) in Western Blot"	Dilution 1:5,000
Authors: Németh K, Szücs N, Czirják S, Reiniger L, Szabó B, Barna G, Karászi K, Igaz P, Zivkovic V, Korbonits M, Patócs A, Butz H	

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