

Product datasheet

Anti-Cdk7 (phospho T170) antibody [EPR6650(2)] ab155976

Recombinant RabMAb

2 References 6 Images

Overview		
Product name	Anti-Cdk7 (phospho T170) antibody [EPR6650(2)]	
Description	Rabbit monoclonal [EPR6650(2)] to Cdk7 (phospho T170)	
Host species	Rabbit	
Tested applications	Suitable for: WB Unsuitable for: ICC/IF or IHC-P	
Species reactivity	Reacts with: Mouse, Rat, Human	
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.	
Positive control	WB: HeLa, A431, NIH/3T3 and C6 cell lysates and rat spleen tissue lysate.	
General notes	 This product is a recombinant monoclonal antibody, which offers several advantages including: High batch-to-batch consistency and reproducibility Improved sensitivity and specificity Long-term security of supply Animal-free production For more information <u>see here</u>. Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <u>RabMAb[®] patents</u>. 	

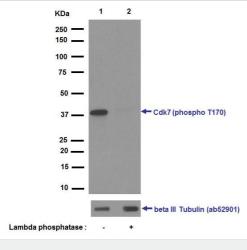
Properties		
Form	Liquid	
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.	
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS	
Purity	Protein A purified	
Clonality	Monoclonal	
Clone number	EPR6650(2)	
lsotype	lgG	

Applications

The Abpromise guaranteeOur Abpromise guaranteecovers the use of ab155976 in the following tested applications.The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes	
WB		1/1000. Predicted molecular weight: 39 kDa. For unpurified use at 1/1000 - 1/10000.	
Application notes	Is unsuitable for ICC/IF or IHC-P.		
Target			
Function	Cyclin-dependent kinases (CDKs) are activated by the binding to a cyclin and mediate the progression through the cell cycle. Each different complex controls a specific transition between two subsequent phases in the cell cycle. CDK7 is the catalytic subunit of the CDK-activating kinase (CAK) complex, a serine-threonine kinase. CAK activates the cyclin-associated kinases CDK1, CDK2, CDK4 and CDK6 by threonine phosphorylation. CAK complexed to the core-TFIIH basal transcription factor activates RNA polymerase II by serine phosphorylation of the repetitive C-terminus domain (CTD) of its large subunit (POLR2A), allowing its escape from the promoter and elongation of the transcripts. Involved in cell cycle control and in RNA transcription by RNA polymerase II. Its expression and activity are constant throughout the cell cycle.		
Tissue specificity	Ubiquitous.		
Sequence similarities	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily. Subfamily. Contains 1 protein kinase domain.		
Post-translational modifications	Phosphorylation of Ser-164 during mitosis inactivates the enzyme. Phosphorylation of Thr-170 is required for activity.		
Cellular localization	Nucleus.		

Images



Western blot - Anti-Cdk7 (phospho T170) antibody

[EPR6650(2)] (ab155976)

All lanes : Anti-Cdk7 (phospho T170) antibody [EPR6650(2)] (ab155976) at 1/1000 dilution (purified)

Lane 1 : HeLa cell lysate (untreated) Lane 2 : HeLa cell lysate (treated with Lambda phosphatase)

Lysates/proteins at 10 μg per lane.

Secondary

All lanes : Peroxidase-conjugated goat anti-rabbit $\lg G (H+L)$ at 1/1000 dilution

Predicted band size: 39 kDa Observed band size: 39 kDa

Blocking buffer and concentration: 5% NFDM/TBST. Diluting buffer and concentration: 5% NFDM /TBST.

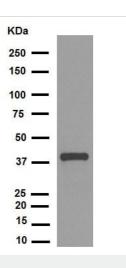
Anti-Cdk7 (phospho T170) antibody [EPR6650(2)] (ab155976) at 1/1000 dilution (purified) + A431 cell lysate at 20 μg

Secondary

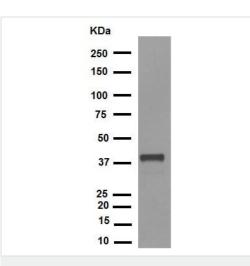
Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 39 kDa Observed band size: 39 kDa

Blocking buffer and concentration: 5% NFDM/TBST. Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-Cdk7 (phospho T170) antibody [EPR6650(2)] (ab155976)



Western blot - Anti-Cdk7 (phospho T170) antibody

[EPR6650(2)] (ab155976)

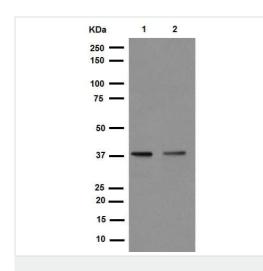
Anti-Cdk7 (phospho T170) antibody [EPR6650(2)] (ab155976) at 1/1000 dilution (purified) + NIH/3T3 cell lysate at 20 μg

Secondary

Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 39 kDa Observed band size: 39 kDa

Blocking buffer and concentration: 5% NFDM/TBST. Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-Cdk7 (phospho T170) antibody [EPR6650(2)] (ab155976)

All lanes : Anti-Cdk7 (phospho T170) antibody [EPR6650(2)] (ab155976) at 1/1000 dilution (purified)

Lane 1 : C6 cell lysate Lane 2 : Rat spleen tissue lysate

Lysates/proteins at 10 µg per lane.

Secondary

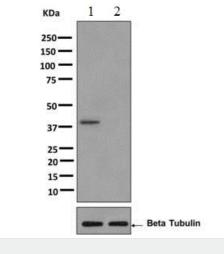
All lanes : Peroxidase-conjugated goat anti-rabbit lgG (H+L) at 1/1000 dilution

Predicted band size: 39 kDa Observed band size: 39 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.

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All lanes : Anti-Cdk7 (phospho T170) antibody [EPR6650(2)] (ab155976) at 1/1000 dilution (unpurified)

Lane 1 : HeLa cell lysate (untreated) Lane 2 : HeLa cell lysate (treated with Lambda phosphatase)

Lysates/proteins at 10 µg per lane.

Predicted band size: 39 kDa

Western blot - Anti-Cdk7 (phospho T170) antibody [EPR6650(2)] (ab155976)



(ab155976)

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