BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Phospho-CDC25A(T507) Antibody

Catalog Number: A01433-2

About CDC25A

CDC25A is a member of the CDC25 family of phosphatases. CDC25A is required for progression from G1 to the S phase of the cell cycle. It activates the cyclin-dependent kinase CDC2 by removing two phosphate groups. CDC25A is specifically degraded in response to DNA damage, which prevents cells with chromosomal abnormalities from progressing through cell division. CDC25A is an oncogene, although its exact role in oncogenesis has not been demonstrated. Two transcript variants encoding different isoforms have been found for this gene.

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Overview

Product Name	Anti-Phospho-CDC25A(T507) Antibody
Reactive Species	Human
Description	Boster Bio Anti-Phospho-CDC25A(T507) Antibody (Catalog # A01433-2). Tested in IF, WB, IHC-P application(s). This antibody reacts with Human.
Application	IF, IHC-P, WB
Clonality	Polyclonal
Formulation	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage Instructions	Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P30304

Technical Details

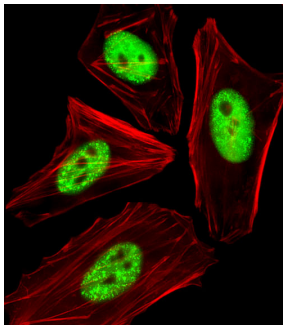
Immunogen	This CDC25A Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T507 of human CDC25A.
Predicted Reactive Species	Bovine, Mouse, Rat
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).

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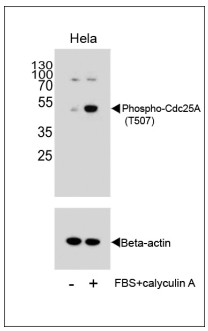
Cross Reactivity	No cross reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Suggested Dilutions	IF: 1:25 WB: 1:1000 IHC-P: 1:50-1:100

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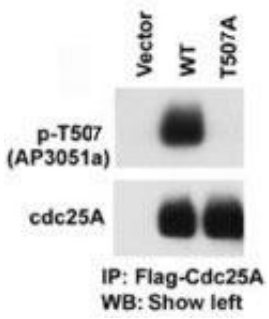
Anti-Phospho-CDC25A(T507) Antibody (A01433-2) Images



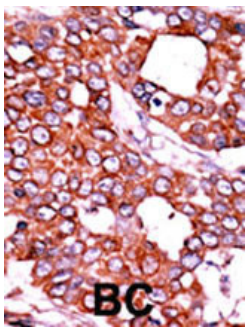
Fluorescent image of HeLa cells stained with Phospho-CDC25A (T507) Antibody. Phospho-CDC25A (T507) Antibody was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit lgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).



Western blot analysis of extracts from Hela cells, untreated or treated with calyculin A, using Phospho-Cdc25A Antibody (T507).



The anti-Phospho-CDC25A-T507 Pab is used in Western blot to detect Phospho-CDC25A-T507 in cells transfected with wild type or mutant T507 A of CDC25A. Data courtesy of Dr. Tiebang Kang of Washington University, St. Louis, MO.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

For Research Use Only. Not for use in diagnostic procedures.