

CDC7 Kinase Rabbit mAb

Catalog No: #48768

Package Size: #48768-1 50ul #48768-2 100ul



SAB[®]
Signalway Antibody

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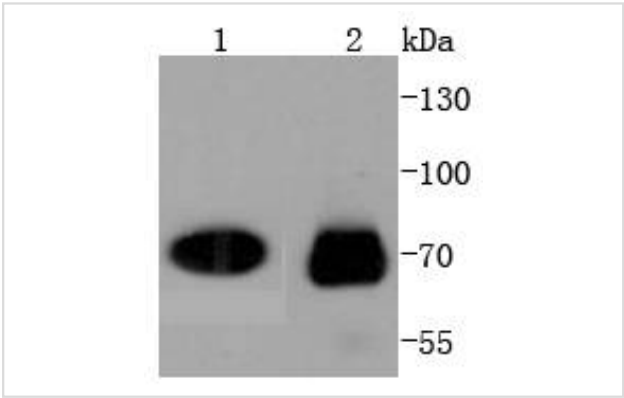
Description

Product Name	CDC7 Kinase Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	SY21-01
Purification	ProA affinity purified
Applications	WB, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	Cdc 7 antibody CDC7 antibody CDC7 cell division cycle 7 antibody CDC7 cell division cycle 7 like 1 antibody CDC7 L1 antibody Cdc7 like 1 antibody CDC7 related kinase antibody CDC7-related kinase antibody CDC7_HUMAN antibody CDC7L 1 antibody CDC7L1 antibody Cell division cycle 7 homolog antibody Cell division cycle 7 kinase antibody Cell division cycle 7 like protein 1 antibody Cell division cycle 7 related protein kinase antibody Cell division cycle 7-related protein kinase antibody HsCDC 7 antibody HsCdc7 antibody Hsk 1 antibody Hsk1 antibody HuCDC 7 antibody huCdc7 antibody MGC117361 antibody MGC126237 antibody MGC126238 antibody
Accession No.	Swiss-Prot#:O00311
Calculated MW	64 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

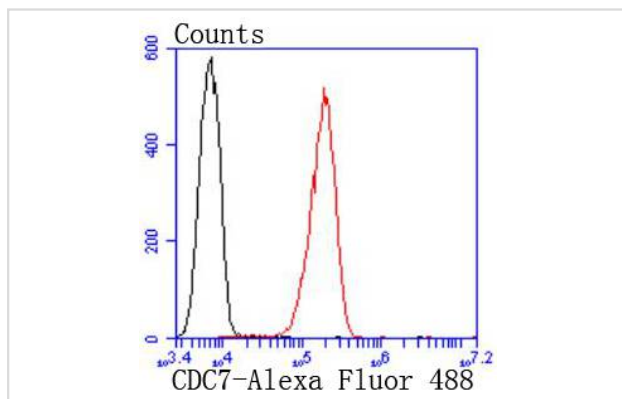
Application Details

WB: 1:1,000-5,000FC: 1:50-1:100

Images



Western blot analysis of CDC7 Kinase on different lysates using anti-CDC7 antibody at 1/1,000 dilution. Positive control:
Lane 1: Jurkat
Lane 2: Hela



Flow cytometric analysis of A431 cells with CDC7 Kinase antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

The Dbf4/Cdc7 protein kinase is essential for the activation of replication origins during S phase. Cdc7/Dbf4 efficiently phosphorylates several proteins that are required for the initiation of DNA replication, including five of the six minichromosome maintenance (Mcm) proteins and the p180 subunit of DNA polymerase α -primase. This protein complex consists of the catalytic subunit Cdc7 associating with the regulatory and activating subunit Dbf4. The kinase activity of the complex is regulated throughout the cell cycle, mainly by fluctuating levels of Dbf4. Cdc7 is consistently expressed throughout the cell cycle, while the expression of Dbf4 is absent during G1 phase and accumulates during S and G2 phases. The anaphase-promoting complex rapidly degrades Dbf4 at the time of chromosome segregation, and the stability of Dbf4 remains low during pre-Start G1 phase. The coordinated degradation of Dbf4 and the time of chromosome separation is important to ensuring that prereplicative complexes, which assemble after chromosome segregation, do not immediately re-fire.

References

Note: This product is for in vitro research use only and is not intended for use in humans or animals.