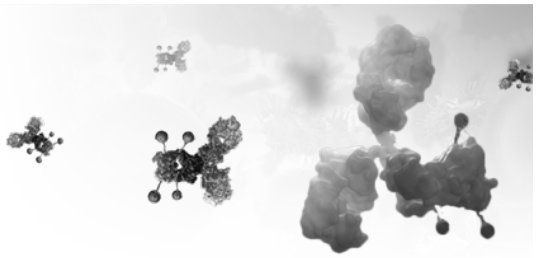

Rabbit Anti-CDC7 Kinase monoclonal antibody, clone TZ32-12 (CABT-L627)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	CDC7 Kinase
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Clone	TZ32-12
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, FC
Molecular Weight	64 kDa
Cellular Localization	Nucleus.
Positive Control	Jurkat, A431, Hela.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide

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Storage	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

BACKGROUND

Introduction	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 a-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 refire.
Keywords	Cdc 7;CDC7;CDC7 cell division cycle 7;CDC7 cell division cycle 7 like 1;CDC7 L1;Cdc7 like 1;CDC7 related kinase;CDC7-related kinase;CDC7_HUMAN;CDC7L 1;CDC7L1;Cell division cycle 7 homolog;Cell division cycle 7 kinase;Cell division cycle 7 like protein 1;Cell division cycle 7 related protein kinase;Cell division cycle 7-related protein kinase;HsCDC 7;HsCdc7;Hsk 1;Hsk1;HuCDC 7;huCdc7;MGC117361;MGC126237;MGC126238 antibody

GENE INFORMATION

Entrez Gene ID	6444

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