Datasheet for ABIN6699595

CDC7 Protein (GST tag)

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Overview

Quantity:	20 µg
Target:	CDC7
Origin:	Human
Source:	Insect cells (Sf9)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CDC7 protein is labelled with GST tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	CDC7 recombinant protein-GST fusion protein
Purification:	Recombinant full-length human CDC7 was expressed by baculovirus in Sf9 insect cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >70% by densitometry.
Purity:	>70%

Target Details

Target:	CDC7
Alternative Name:	CDC7 (CDC7 Products)
Background:	Synonyms: CDC7L1, HsCDC7, Hsk1, huCDC7, MGC117361, MGC126237, MGC126238, Cell division cycle 7-related protein kinase, CDC7-related kinase, Background: CDC7 is a cell division cycle protein that is critical for the G1/S transition and

Target Details

	initiation of DNA replication during the cell division cycle. Overexpression of CDC7 gene product may be associated with neoplastic transformation for some tumors. Inhibition of CDC7 in cancer cells impairs progression through S phase, inducing a p53-independent apoptotic cell death, whereas in normal cells, it does not affect cell viability (1). Inhibition of CDC7 kinase activity in cancer cells restricts DNA replication and induces apoptosis. CDC7 phosphorylates the minichromosome maintenance protein 2 (Mcm2), a component of the DNA replicative helicase needed for genome duplication (2). CDC7 Protein is ideal for investigators involved in Signaling Proteins, Cell-Cycle Proteins, Cancer, Cell Cycle, and Ser/Thr Kinases research.
NCBI Accession:	NM_003503
Pathways:	Mitotic G1-G1/S Phases, DNA Replication

Application Details

Application Notes:	Western_Blot_Dilution: User Optimized Application_Note: CDC7 Protein is suitable for use in Western Blot. Expect a band approximately ~ 94 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.2 µg/µL
Buffer:	CDC7 Protein is stored in 50 mM Tris-HCl, pH 7.5, 50 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.
Storage:	-80 °C
Storage Comment:	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Expiry Date:	12 months