

CDC25A recombinant protein

CDC25A, Active

CATALOG # AAA73288	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

CDC25A; Active; CDC25A2; CDC25A recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for CDC25A recombinant protein	WB (Western Blot), Phosphatase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree 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.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Enzyme Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for CDC25A recombinant protein	Full-length recombinant human CDC25A was expressed in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_001789. CDC25A (also known as cell division cycle 25 homolog A) is a member of the CDC25 family of phosphatases that are required for progression from G1 to the S phase of the cell cycle. CDC25A can activate the cyclin-dependent kinase CDC2 (also known as CDK1) by removing two phosphate groups (1). CDC25A is specifically degraded in response to DNA damage, which prevents cells with chromosomal abnormalities from progressing through cell division. CDC25A overexpression is detected in human cancers and this may contribute to the tumorigenesis process (2). CDC25A is degraded by moderate heat shock and this degradation is protected by HSP90.
Product Categories/Family for CDC25A recombinant protein	Phosphatases; Cancer; Cell Cycle; Phosphatases; Ser/Thr Kinases
References	1. Mailand, N. et.al: Rapid destruction of human Cdc25A in response to DNA damage. Science 288: 1425-1429, 2000. 2. Madlener, S. et.al: Short 42 degrees C heat shock induces phosphorylation and degradation of Cdc25A which depends on p38MAPK, Chk2 and 14.3.3. Hum. Molec. Genet. 18: 1990-2000, 2009.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_001789
Molecular Weight	~94kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/cdc25a-recombinant-protein-sf9-insect-cells-wb-western-blot-phosphatase-assay/73288>