CKS1B Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Cks1 (CKS1B), Polyclonal Antibody
Full Product Name	Cks1, CT (Cdc kinase subunit 1)
Product Gene Name	anti-CKS1B antibody
Product Synonym Names	Anti -Cks1, CT (Cdc kinase subunit 1)
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.4, 0.1% sodium azide
Purity/Purification	Affinity Purified Purified by epitope affinity chromatography.
Specificity	Recognizes human Cks1 protein at ~11kD. Bands of unknown origin at ~20, 30 and 100kD are also observed. Reactivity: HeLa cell lysates by Western blotting, immunofluorescence and immunoprecipitation, and with non-small cell lung carcinoma tissue by immunohistochemistry. Western blotting with purified Cks1 and Cks2 proteins was used to confirm that this antibody does not cross-react with Cks2. Cross-reactivity with mouse is expected based upon amino acid sequence homology.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	9,660 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (154947118..154951725). Location: 1q21.2
OMIM	116900
3D Structure	ModBase 3D Structure for P61024
Immunogen	Synthetic peptide derived from the C-terminal region of human and mouse Cks1.
Product Categories/Family for anti-CKS1B antibody	Antibodies; Abs to Protein Kinases
Applications Tested/Suitable for anti-CKS1B antibody	ELISA (EL/EIA), Western Blot (WB), Immunoprecipitation (IP), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-CKS1B antibody	Suitable for use in ELISA, Western Blot, Immunofluorescence, Immunoprecipitation and Immunohistochemistry. Dilution: ELISA: 0.1-1ug/ml Western Blot: 1-3ug/ml Immunofluorescence: 10ug/ml Immunoprecipitation: 7ug/IP reaction Immunohistochemistry: 2.5ug/ml Note: For immunohistochemistry with formalin-fixed, paraffin-embedded tissues, Heat Induced Epotope Retrieval (HIER) with citrate buffer, pH 6.0, is recommended.

Related Product Information for anti-CKS1B antibody	Cks (Cdc kinase subunit) proteins are members of the cyclin-dependent kinase (cdk) family that act as adaptors to allow the cdks to interact more efficiently with their molecular targets. Cks1 is involved in the regulation of cell cycle mitosis in normal and cancer cells. Cks1 promotes mitosis by modulating the transcriptional activation of the APC/C protein-ubiquitin ligase activator Cdc20. Cks1 has also been established as an essential cofactor in the ubiquitylation of Cdk inhibitor p27 by Skp2 ubiquitin ligase. Mammalian Cks1 binds to Skp2 and promotes the association of Skp2 with phosphorylated p27 (Thr187), which further induces ubiquitylation of p27. High expression of Cks1 may be involved in the pathogenesis of human non-small cell lung carcinoma.
Other Notes	Small volumes of anti-CKS1B antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CKS1B purchase	MBS612642 is an antibody targeting CKS1B. Also known as Cks1, CT (Cdc kinase subunit 1). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CKS1B. It may not necessarily be applicable to this product.

NCBI GI #	4502857
NCBI GeneID	1163
NCBI Accession #	NP_001817.1
UniProt Primary Accession #	P61024
UniProt Secondary Accession #	P33551
UniProt Related Accession #	P61024; Q5T178; Q9BZU3
GenBank Nucleotide #	NM_001826.2
NCBI Official Full Name	cyclin-dependent kinases regulatory subunit 1
NCBI Official Synonym Full Names	CDC28 protein kinase regulatory subunit 1B
NCBI Official Symbol	CKS1B
NCBI Official Synonym Symbols	CKS1; ckshs1; PNAS-16; PNAS-18
UniProt Protein Name	Cyclin-dependent kinases regulatory subunit 1
UniProt Gene Name	CKS1B
UniProt Synonym Gene Names	CKS1
UniProt Entry Name	CKS1_HUMAN
NCBI Protein Information	cyclin-dependent kinases regulatory subunit 1; CKS-1; PNAS-143; OTTHUMP00000035541; CDC28 protein kinase 1; CDC28 protein kinase 1B; CDC2-associated protein CKS1; cell division control protein CKS1; NB4 apoptosis/differentiation related protein
NCBI Summary for CKS1B	CKS1B protein binds to the catalytic subunit of the cyclin dependent kinases and is essential for their biological function. The CKS1B mRNA is found to be expressed in different patterns through the cell cycle in HeLa cells, which reflects a specialized role for the encoded protein. At least two transcript variants have been identified for this gene, and it appears that only one of them encodes a protein. [provided by RefSeq]

UniProt Comments for CKS1B	CKS1: Binds to the catalytic subunit of the cyclin dependent kinases and is essential for their biological function. Belongs to the CKS family. Protein type: Protein kinase, regulatory subunit; Cell cycle regulation Chromosomal Location of Human Ortholog: 1q21.2 Cellular Component: nucleoplasm Molecular Function: protein binding; cyclin-dependent protein kinase regulator activity Biological Process: cell proliferation; cell division; regulation of cyclin-dependent protein kinase activity; mitotic cell cycle; G1/S transition of mitotic cell cycle
Research Articles on CKS1B	**1.** Over-expression of CKS1B activates both MEK/ERK and JAK/STAT3 signaling pathways and promotes myeloma cell drug-resistance.
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