Ccnd1 Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	Ccnd1, Blocking Peptide
Full Product Name	Ccnd1 Peptide - C-terminal region
Product Gene Name	Ccnd1 blocking peptide
Product Synonym Gene Name	AI327039; Cyl-1; PRAD1; bcl-1; cD1
Sequence	PDCLRACQEQ IEALLESSLR QAQQNVDPKA TEEEGEVEEE AGLACTPTDV
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	Ccnd1 peptide (MBS3229802) is used for blocking the activity of Ccnd1 antibody (MBS3204837)
Molecular Weight	33kDa
Product Categories/Family for Ccnd1 blocking peptide	Peptide
Applications Tested/Suitable for Ccnd1 blocking peptide	Western Blot (WB)
Related Product Information for Ccnd1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-Ccnd1 Antibody, made Target Description: Ccnd1 is essential for the control of the cell cycle at the G1/S (start) transition.
Other Notes	Small volumes of Ccnd1 blocking peptide 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 Ccnd1 purchase	MBS3229802 is a blocking peptide targeting Ccnd1. Also known as Ccnd1 Peptide - C-terminal region. Reactive in Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Ccnd1. It may not necessarily be applicable to this product.

NCBI GI #	6680868
NCBI GeneID	12443
NCBI Accession #	NP_031657
UniProt Primary Accession #	P25322
UniProt Related Accession #	P25322
GenBank Nucleotide #	NM_007631
NCBI Official Full Name	G1/S-specific cyclin-D1
NCBI Official Synonym Full Names	cyclin D1
NCBI Official Symbol	Ccnd1

NCBI Official Synonym Symbols	cD1; CycD1; Cyl-1; PRAD1; bcl-1; AI327039
UniProt Protein Name	G1/S-specific cyclin-D1
Protein Family	G1/S-specific cyclin
UniProt Gene Name	Ccnd1
UniProt Synonym Gene Names	Cyl-1
UniProt Entry Name	CCND1_MOUSE
NCBI Protein Information	G1/S-specific cyclin-D1
UniProt Comments for Ccnd1	CCND1: a member of the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Forms a complex with and functions as a regulatory subunit of CDK4 or CDK6, whose activity is required for cell cycle G1/S transition. This protein has been shown to interact with tumor suppressor protein Rb and the expression of this gene is regulated positively by Rb. Protein type: Nuclear receptor co-regulator; Activator; Cell cycle regulation; Oncoprotein Cellular Component: nucleoplasm; tight junction; membrane; transcriptional repressor complex; cytoplasm; cyclin-dependent protein kinase holoenzyme complex; intracellular; nucleus Molecular Function: protein binding; enzyme binding; histone deacetylase binding; protein complex binding; kinase activity; cyclin-dependent protein kinase regulator activity; transcription corepressor activity; transcription factor binding; protein kinase binding; protein kinase activity Biological Process: lactation; fat cell differentiation; G1 DNA damage checkpoint; negative regulation of Wnt receptor signaling pathway; re-entry into mitotic cell cycle; positive regulation of cyclin-dependent protein kinase activity; regulation of cell cycle; positive regulation of mammary gland epithelial cell proliferation; negative regulation of epithelial cell differentiation; negative regulation of transcription from RNA polymerase II promoter; Wnt receptor signaling pathway through beta-catenin; protein amino acid phosphorylation; Leydig cell differentiation; regulation of transcription, DNA-dependent; positive regulation of cell proliferation; Wnt receptor signaling pathway; transcription, DNA-dependent; unfolded protein response; mammary gland epithelial cell proliferation; response to organic nitrogen; cell cycle; cell division; positive regulation of protein amino acid phosphorylation; regulation of cyclin-dependent protein kinase activity; regulation of protein kinase activity; response to DNA damage stimulus; G1/S transition of mitotic cell cycle
Research Articles on Ccnd1	**1.** Elevated expression of miR302-367 in endothelial cells inhibits developmental angiogenesis via CDC42/CCND1 mediated signaling pathways.
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