

Cyclin D3 (Phospho-Thr283) Antibody

Catalog No: #12004



Package Size: #12004-1 50ul #12004-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

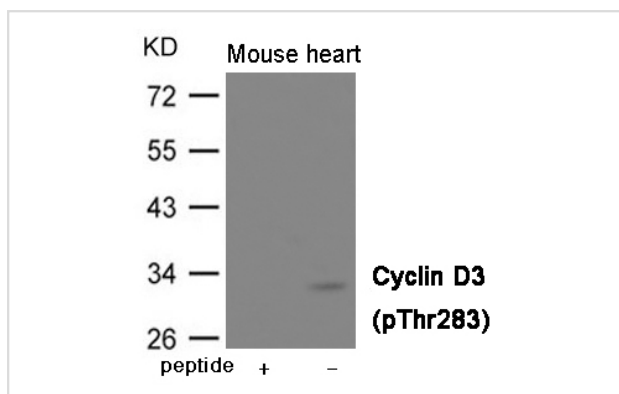
Product Name	Cyclin D3 (Phospho-Thr283) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of Cyclin D3 only when phosphorylated at Threonine 283.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of Threonine 283 (T-S-T(p)-P-T) derived from Human Cyclin D3.
Target Name	Cyclin D3
Modification	Phospho
Other Names	CCND3
Accession No.	Swiss-Prot#: P30281; NCBI Gene#: 896; NCBI Protein#: XP_005249520.1
SDS-PAGE MW	31kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

Application Details

Predicted MW: 31kd

Western blotting: 1:500~1:1000

Images



Western blot analysis of extracts from Mouse heart tissue using Cyclin D3 (Phospho-Thr283) Antibody #12004. The lane on the left is treated with the antigen-specific peptide.

Background

Regulatory component of the cyclin D3-CDK4 (DC) complex that phosphorylates and inhibits members of the retinoblastoma (RB) protein family including RB1 and regulates the cell-cycle during G1/S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complex and the subsequent transcription of E2F target genes which are responsible for the progression through the G1 phase. Hypophosphorylates RB1 in early G1 phase. Cyclin D-CDK4 complexes are major integrators of various mitogenic and antimitogenic signals. Also substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity. Component of the ternary complex, cyclin D3/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.