

CCND3 monoclonal antibody, clone DCS2.2

Catalog # MAB1853 Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against full length recombinant CCND3.
Immunogen	Recombinant protein corresponding to full length human CCND3.
Host	Mouse
Reactivity	Human, Mouse, Rat
Form	Liquid
Isotype	IgG1
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.08% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot
- Immunohistochemistry
- Immunoprecipitation

Gene Info — CCND3

Entrez GeneID [896](#)

Gene Name CCND3

Gene Alias -

Gene Description cyclin D3

Omim ID [123834](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene belongs to 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. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin 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 and be involved in the phosphorylation of tumor suppressor protein Rb. The CDK4 activity associated with this cyclin was reported to be necessary for cell cycle progression through G2 phase into mitosis after UV radiation. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations D3-type cyclin|G1/S-specific cyclin D3|OTTHUMP00000016390

Publication Reference

- [Abnormal patterns of D-type cyclin expression and G1 regulation in human head and neck cancer.](#)

Bartkova J, Lukas J, Müller H, Strauss M, Gusterson B, Bartek J.

Cancer Research 1995 Feb; 55(4):949.

Application: Flow Cyt, IF, WB-Ce, Human, Human head and neck cancer cells

Pathway

- [Cell cycle](#)
- [Focal adhesion](#)
- [Jak-STAT signaling pathway](#)
- [p53 signaling pathway](#)

- [Wnt signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Alzheimer disease](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cerebral Amyloid Angiopathy](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Neoplasm Invasiveness](#)
- [Neuroblastoma](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pulmonary Disease](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)