

Product datasheet for **AM20988PU-N**

Cyclin D1 (CCND1) Mouse Monoclonal Antibody [Clone ID: CD1.1]

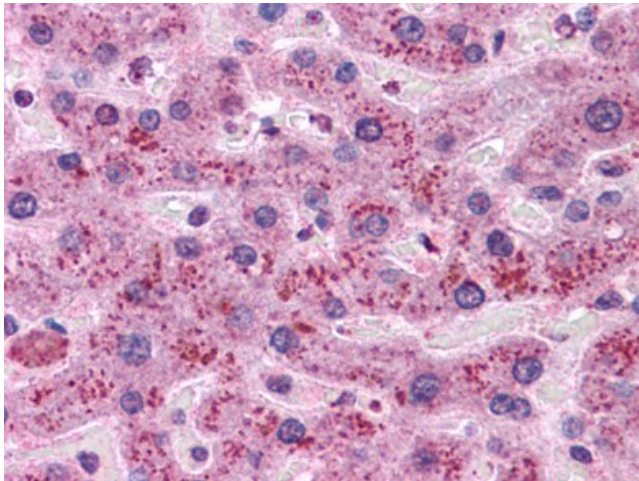
Product data:

Product Type:	Primary Antibodies
Clone Name:	CD1.1
Applications:	ELISA, FC, IF, IHC, IP, WB
Recommended Dilution:	ELISA. Flow Cytometry. Immunocytochemistry: 1 µg/ml. Immunohistochemistry on Frozen Sections: 2 µg/ml. Immunohistochemistry on Paraffin Sections: 10 µg/ml. Immunoprecipitation. Western Blot: 1 µg/ml.
Reactivity:	Human, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified protein, Purified protein
Specificity:	The antibody CD1.1 recognizes cyclin D1, an ubiquitously expressed 33 kD protein that migrates as a 36 kD band under reducing SDS-PAGE conditions.
Formulation:	PBS, 15 mM sodium azide, pH 7.4 State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein A Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	cyclin D1
Database Link:	Entrez Gene 58919 Rat Entrez Gene 595 Human P24385



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- Background:** The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance throughout 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 tumor suppressor protein Rb and the expression of this gene is regulated positively by Rb. Mutations, amplification and overexpression of this gene, which alters cell cycle progression, are observed frequently in a variety of tumors and may contribute to tumorigenesis.
- Synonyms:** Cyclin-D1, PRAD-1 oncogene, BCL-1 oncogene, CCND1, BCL1, PRAD1
- Protein Families:** Druggable Genome, Stem cell - Pluripotency, Stem cell relevant signaling - DSL/Notch pathway, Stem cell relevant signaling - JAK/STAT signaling pathway, Stem cell relevant signaling - Wnt Signaling pathway
- Protein Pathways:** Acute myeloid leukemia, Bladder cancer, Cell cycle, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, Focal adhesion, Glioma, Jak-STAT signaling pathway, Melanoma, Non-small cell lung cancer, p53 signaling pathway, Pancreatic cancer, Pathways in cancer, Prostate cancer, Small cell lung cancer, Thyroid cancer, Viral myocarditis, Wnt signaling pathway

Product images:

Human Liver: Formalin-Fixed, Paraffin-Embedded (FFPE)