ARG43846
anti-Cyclin D1 antibody [DCS-6] (Biotin)

Package: 100 µg
Store at: 4°C

Summary

Product Description	Biotin-conjugated Mouse Monoclonal antibody recognizes Cyclin D1.
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat, NHuPrm
Tested Application	FACS, IHC-Fr, IHC-P, IP, WB
Host	Mouse
Clonality	Monoclonal
Clone	DCS-6
Isotype	IgG2a
Target Name	Cyclin D1
Species	Human
Immunogen	Human Cyclin D1 recombinant protein.
Conjugation	Biotin
Alternate Names	CCND1; Cyclin D1; U21B31; PRAD1; BCL1; B-Cell Lymphoma 1 Protein; G1/S-Specific Cyclin-D1; B-Cell CLL/Lymphoma 1; BCL-1 Oncogene; PRAD1 Oncogene; D11S287E; Cyclin D1 (PRAD1: Parathyroid Adenomatosis 1); Parathyroid Adenomatosis 1; G1/S-Specific Cyclin D1; BCL-1

Application Instructions

Application table

Application	Dilution
FACS	2-10 µg/ml
IHC-Fr	5-10 µg/ml
IHC-P	5-10 µg/ml
IP	Assay-dependent
WB	Assay-dependent

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

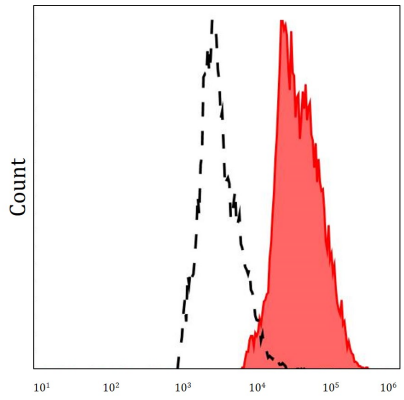
Form	Liquid
Purification	Protein-A affinity chromatography
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide

Concentration	1 mg/ml
Storage instruction	Aliquot and store in the dark at 4°C. Keep protected from prolonged exposure to light. Do not freeze. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

Gene Symbol	CCND1
Gene Full Name	Cyclin D1
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 human cancers. [provided by RefSeq, Dec 2019]
Function	Regulatory component of the cyclin D1-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.
Calculated Mw	34 kDa
PTM	Isopeptide bond; Phosphoprotein; Ubl conjugation
Cellular Localization	Cytoplasm, Membrane, Nucleus

Images



ARG43846 anti-Cyclin D1 antibody [DCS-6] (Biotin) FACS image

Flow Cytometry: MCF-7 stained with ARG43846 anti-Cyclin D1 antibody [DCS-6] (Biotin) at 5 µg/ml.