

## Cyclin D2 Ab-4 (Clone DCS-3.1 + DCS-5.2)

### Mouse Monoclonal Antibody

Cat. #MS-221-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)

Cat. #MS-221-P1ABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml) (Purified Ab without BSA and Azide)

**Description:** Cyclin D2 is a G<sub>1</sub> cyclin required for G<sub>1</sub>-phase progression and is a strong candidate for a proto-oncogene. cyclin D2 can phosphorylate pRB when associated with cdk4 and/or cdk6.

**Comments** Ab-4 is particularly designed for sensitive detection of cyclin D2.

**Mol. Wt. of Antigen:** 34kDa

**Epitope:** Not determined

**Species Reactivity:** Human, Mouse, and Rat. Others-not known.

**Clone Designation:** DCS-3.1 + DCS-5.2

**Ig Isotype:** IgG<sub>2a</sub> (DCS-3.1), IgG<sub>2b</sub> (DCS-5.2)

**Immunogen:** Purified histidine-tagged human recombinant full length cyclin D2 protein

#### **Applications:**

- Flow Cytometry<sup>1</sup>
- Immunofluorescence<sup>4</sup>
- Kinase Assay
- Western Blotting<sup>1</sup>
- Immunohistology (Not suitable)

The optimal dilution for a specific application should be determined by the investigator.

#### **Positive Control:**

U-2-OS, C82, RD, Bristol-8, or LoVo36 cells. Note that T47D, ZR75, SKBR3, MCF-7, BT-20, MDA468, HBL100, BT5549, HeLa, Saos2, and HT29 cells are negative for cyclin D2.<sup>1</sup>

**Cellular Localization:** Nuclear

**Supplied As:** 200µg/ml antibody purified from the ascites fluid by Protein A chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA and azide at 1mg/ml.

#### **Storage and Stability:**

Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

#### **Key References:**

1. Lukas J, *et. al.* Oncogene, 1995,10:2125-34.
2. Bartkova J, *et. al.* Cancer Research, 1995, 55:949-56.
3. Lukas J, *et. al.* Molecular and Cellular Biology, 1995, 15(5):2600-11.

#### **Limitations and Warranty:**

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. NeoMarkers is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

#### **Material Safety Data:**

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

#### **For Research Use Only**

