



## Product Information Sheet

### Monoclonal Anti-p19<sup>INK4d</sup>

**Catalogue No.** MA1075

**Lot No.** 08A12

**Clone:** IMD-19

**Ig type:** mouse IgG1

**Size:** 100µg/vial

**Specificity**

Human.

No cross reactivity with other proteins.

**Recommended application**

*Western blot*

*Immunohistochemistry(P)*

*Immunocytochemistry*

**Immunogen**

Recombinant human p19<sup>INK4d</sup>.

**Purification**

Purified by the goat anti-mouse IgG affinity chromatography.

**Application**

*Western blot*

At 0.5-1µg/ml with the appropriate system to detect p19<sup>INK4d</sup> in cells and tissues.

*Immunohistochemistry(P)*

At 1-2µg/ml to detect p19<sup>INK4d</sup> in formalin fixed and paraffin embedded tissues.

*Immunocytochemistry*

Suitable

*Other applications have not been tested.*

*Optimal dilutions should be determined by end user.*

**Formulation**

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN<sub>3</sub> as preservative.

**Reconstitution**

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

**Storage**

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

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## BACKGROUND

Cyclins are important in regulating the cell cycle through their formation of enzymatic complexes with various cyclin-dependent kinases. P19(INK4d) also known as cyclin-dependent kinase inhibitor 2D, is one of the novel members of the mouse INK4 gene family. Okuda et al. (1995) described the cloning of the human INK4d gene (CDKN2D). The predicted 166-amino acid protein is 86% identical to the mouse protein and about 45% identical to other human INK4 family members.

**FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE.**

## **REFERENCE**

1. Hirai, H.; Roussel, M. F.; Kato, J.-Y.; Ashmun, R. A.; Sherr, C. J. : Novel INK4 proteins, p19 and p18, are specific inhibitors of cyclin D-dependent kinases CDK4 and CDK6. *Molec. Cell. Biol.* 15: 2672-2681, 1995.
2. tsuzaki, Y.; Miyazawa, K.; Yokota, T.; Hitomi, T.; Yamagishi, H.; Sakai, T. : Molecular cloning and characterization of the human p19(INK4d) gene promoter. *FEBS Lett.* 517: 272-276, 2002.