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DATA SHEET

Mouse Anti-p27/Kip1 [DCS-72.F6]: MC0896, MC0896RTU7

Intended Use: For Research Use Only

Description: p27Kip1 is a cyclin-dependent kinase inhibitor involved in G1 arrest. p27Kip1 binds to and inhibits cyclinE-Cdk2 complex, cyclinA-CDK2 and cyclinD1-CDK4 (1). p27Kip1 is regulated by phosphorylation on serine 10 (S10) and threonine 187 (T187). Phosphorylation by CDK2 on T187 results in ubiquitination and degradation of p27Kip1, while phosphorylation by hKIS on S10 signals nuclear export to the cytoplasm. The expression level of p27Kip1 is high in normal cells. Downregulation of p27Kip1 is found in many types of cancers, and decreased expression of p27Kip1 appears to be a poor prognostic factor in several tumor models, including carcinomas of the lung, breast, colorectal, and prostate.

Specifications

Clone:	DCS-72.F6
Source:	Mouse
Isotype:	IgG1k
Reactivity:	Human, mouse, rat, monkey
Localization:	Nucleus
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, Flow Cyt., IF, WB

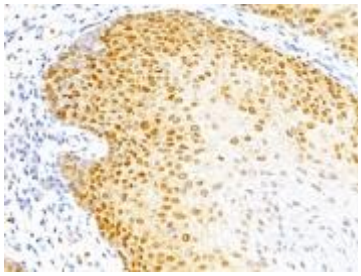
Package:

Description	Catalog No.	Size
p27/Kip1 Concentrated	MC0896	1 ml
p27/Kip1 Prediluted	MC0896RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Colon cancer
Concentrated Dilution:	100-300
Pretreatment:	Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human cervical cancer stained with anti-p27 using DAB

References:

1. Induction of Forkhead Class box O3a and apoptosis by a standardized ginsenoside formulation, KG-135, is potentiated by autophagy blockade in A549 human lung cancer cells. Yao CJ, et al. J Ginseng Res 41:247-256, 2017.
2. Downregulation of Rab27A contributes to metformin-induced suppression of breast cancer stem cells. Feng F, et al. Oncol Lett 14:2947-2953, 2017.
3. Deregulated WWOX is involved in a negative feedback loop with microRNA-214-3p in osteosarcoma. Gao K, et al. Int J Mol Med N/A:N/A, 2016.

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