Mouse Anti-p21WAF1 [DCS-60.2]: MC0563, MC0563RTU7

Intended Use: For Research Use Only

Description: p21 / WAF1, also known as cyclin-dependent kinase inhibitor 1 or CDK-interacting protein 1, is a protein that in humans is encoded by the CDKN1A gene located on chromosome 6 (6p21.2). The p21 protein binds to and inhibits the activity of cyclin-CDK2 or -CDK4 complexes, and thus functions as a regulator of cell cycle progression at G1. p21 is expressed in all adult human tissues. In tumors, the expression of p21 has been studied by immunohistochemical methods in a wide range of human tumors, such as gastric carcinoma, non-small cell lung carcinoma, and thyroid carcinoma. The expression of p21 is associated with favorable prognosis in various tumors.

Specifications

Clone:	DCS-60.2
Source:	Mouse
Isotype:	IgG2a/k
Reactivity:	Human
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

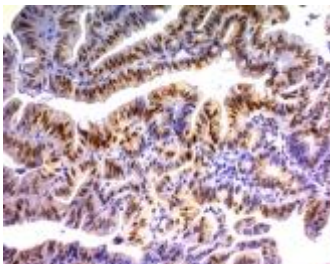
Package:

Description	Catalog No.	Size
p21WAF1 Concentrated	MC0563	1 ml
p21WAF1 Prediluted	MC0563RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Colon cancer
Concentrated Dilution:	25-100
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 colon carcinoma stained with p21 using DAB

References:

1. PDGFR-modulated miR-23b cluster and miR-125a-5p suppress lung tumorigenesis by targeting multiple components of KRAS and NF-kB pathways. Naidu S, et al. Sci Rep 7:15441, 2017.
2. CDK1 interacts with iASPP to regulate colorectal cancer cell proliferation through p53 pathway. Gan W, et al. Oncotarget 8:71618-71629, 2017.
3. The p21 Cdk-interacting protein Cip1 is a potent inhibitor of G1 cyclin-dependent kinases. Harper, J.W., et al. Cell 75: 805-816, 1993.

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