

Product datasheet for **DM291**

p57 Kip2 (CDKN1C) Mouse Monoclonal Antibody [Clone ID: 57P06]

Product data:

Product Type:	Primary Antibodies
Clone Name:	57P06
Applications:	IHC, IP
Recommended Dilution:	Immunoprecipitation (Native). Immunohistochemistry on Paraffin Embedded Sections: 1/25-1/50 in an ABC method 30-60 minutes at room temperature. Formalin fixed paraffin embedded tissue sections require high temperature antigen unmasking with 10 mM citrate buffer, pH 6.0 prior to immunostaining. Positive Control: Colon carcinoma.
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	BALB/C mice were injected with mouse recombinant p57Kip2protein.
Specificity:	This antibody is specific to a protein of 57 kD known as p57Kip2 a cell cycle regulatory mitotic inhibitor. It does not cross react with p27Kip1. p57Kip2 is a potent tight-binding inhibitor of several G1 cyclin complexes and is negative regulator of cell proliferation.
Formulation:	State: Purified State: Liquid purified IgG fraction containing Sodium Azide as preservative.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life one year from despatch.
Gene Name:	cyclin-dependent kinase inhibitor 1C
Database Link:	Entrez Gene 1028 Human P49918



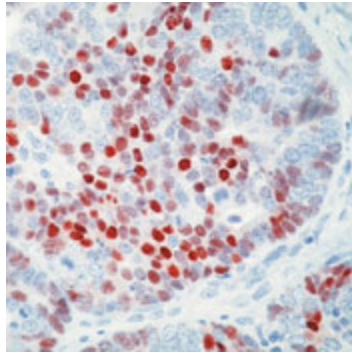
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Background:

p57Kip2 (or CDKN1C) is a potent tight-binding inhibitor of several G1 cyclin complexes, and is a negative regulator of cell proliferation. The gene encoding human p57Kip2 is located on chromosome 11p15.5, a region implicated in both sporadic cancers, Wilm's tumor, and Beckwith-Wiedemann syndrome (BWS), a cancer syndrome, making it a tumor suppressor candidate. BWS is characterized by numerous growth abnormalities and an increased risk of childhood tumors. Several types of childhood tumors including Wilms tumor, adrenocortical carcinoma and rhabdomyosarcoma display a specific loss of maternal 11p15 alleles, suggesting that genomic imprinting plays an important part. This region also contains two other imprinted genes, insulin-like growth factor II (IGF-II) and H19, both of which seem to be implicated in adrenal neoplasms.

Synonyms:

p57KIP2

Product images:

Formalin-fixed, paraffin-embedded human colon carcinoma stained with p57 Ab (Cat. DM291) using peroxidase-conjugate and AEC chromogen. Note nuclear staining of tumor cells.