**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for DM291-05

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

### Product data:

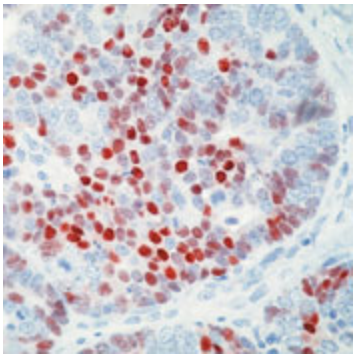
| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | 57P06 |
| **Applications:** | IHC |
| **Recommended Dilution:** | Immunuprecipitation (Native).<br>Immunohistochemistry on Paraffin Embedded Sections: 1/25-1/50 in an ABC method 30-60 minutes at room temperature.<br>Formalin fixed paraffin embedded tissue sections require high temperature antigen unmasking with 10 mM citrate buffer, pH 6.0 prior to immunostaining.<br>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: Ig Fraction<br>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.<br>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<br>P49918 |

View online »

**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.