

Product datasheet for **AM10128SU-N**

p57 Kip2 (CDKN1C) Mouse Monoclonal Antibody [Clone ID: KP10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	KP10
Applications:	IHC
Recommended Dilution:	Immunohistochemistry on Formalin-Fixed, Paraffin-Embedded Sections: 1/50-1/200 Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. Use Polymer anti Mouse/Rabbit IgG as a detection system. <i>Positive Control:</i> Colon carcinoma or placenta.
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Recombinant Human p57Kip2 protein.
Specificity:	Recognizes p57Kip2. Cellular Localization: Nuclear.
Formulation:	State: Supernatant State: Liquid Tissue Culture Supernatant with 0.2% BSA and 15mM Sodium Azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	cyclin-dependent kinase inhibitor 1C
Database Link:	Entrez Gene 18039 Mouse 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:

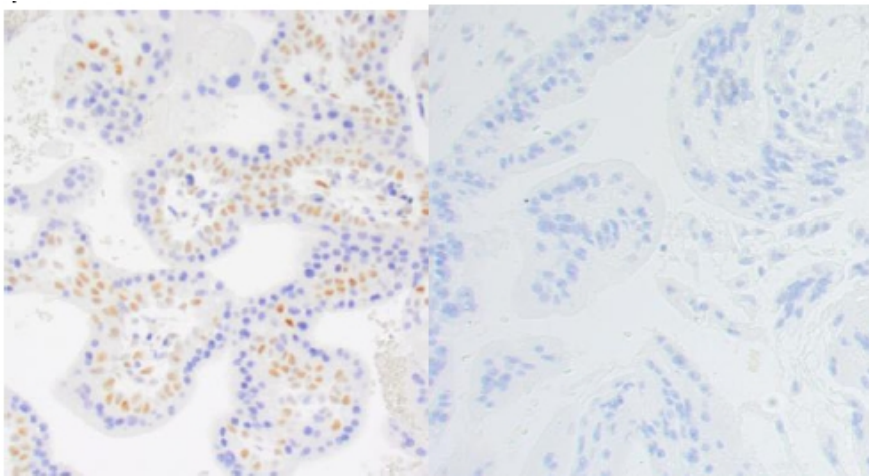
p57KIP2

Protein Families:

Druggable Genome, ES Cell Differentiation/IPS

Protein Pathways:

Amyotrophic lateral sclerosis (ALS)

Product images:

Formalin-Fixed, Paraffin-Embedded Human partial (left) and complete (right) moles stained with p57 antibody Cat.-No. AM10128SU-N using peroxidase conjugate and DAB chromogen. Note the nuclear staining of cytotrophoblasts in partial mole and negative in complete mole.