p57<sup>Kip2</sup> (Clone KP10)
Mouse Monoclonal Antibody

**Specificity:** Human and Mouse. Others not known

**Immunogen:** Recombinant human p57Kip2 protein

**Ig Class:** IgG<sub>2b</sub> / κ

**Storage:** Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

**Staining procedures:** Use formalin-fixed and paraffin-embedded sections. **Retrieval conditions:** Pretreatment of deparaaffinized tissue with heat-induced epitope retrieval is recommended. **Detection methods:** Polymer anti-mouse/rabbit IgG detection system. **Working dilution:** 1:50-200. **Positive Control:** Colon carcinoma or placenta. **Cellular Localization:** Nuclear. **Intended Use:** In vitro diagnosis (IVD).

**Description:** 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 p57<sup>Kip2</sup> 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.

**Supplied As:** Tissue culture supernatant with 0.2% BSA and 15mM sodium azide.

Formalin-fixed, paraffin-embedded human partial (left) and complete (right) moles stained with anti-p57 antibody using peroxidase-conjugate and DAB chromogen. Note the nuclear staining of cytотrophoblasts in partial mole and negative in complete mole

Cat. #Z2173 (1.0 ml)