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Bhubaneswar, Odisha - 751024, INDIA

## 36-1017: Monoclonal Antibody to p57Kip2 (Mitotic Inhibitor/Suppressor Protein)(Clone: 57P06)

Clonality: Monoclonal Clone Name: 57P06

**Application :** FACS,IF,IHC **Reactivity :** Human, Mouse

 Gene :
 CDKN1C

 Gene ID :
 1028

 Uniprot ID :
 P49918

 Format :
 Purified

 Alternative Name :
 CDKN1C,KIP2

Isotype: Mouse IgG2b, kappa

Immunogen Information: Recombinant human p57Kip2 protein

## **Description**

Recognizes a protein of 57kDa, identified as p57Kip2. It shows no cross-reaction with p27Kip1. p57Kip2 is a potent tight-binding inhibitor of several G1 cyclin complexes, and is a negative regulator of cell proliferation. Anti-p57 has been used as an aide in identification of complete hydatidiform mole (CHM) (no nuclear labeling of cytotrophoblasts and stromal cells) from partial hydatidiform mole (PHM) in which both cytotrophoblasts and stromal cells stain. The histological differentiation of complete mole, partial mole, and hydropic spontaneous abortion is problematic. Most complete hydatidiform moles are diploid, whereas most partial moles are triploid. Ploidy studies will identify partial moles, but will not differentiate complete moles from non-molar gestations. Complete moles carry a high risk of persistent disease and choriocarcinoma, while partial moles have a very low risk. In normal placenta, many cytotrophoblast nuclei and stromal cells are labeled with this antibody. Similar findings apply to PHM and hydropic abortus tissues. Intervillous trophoblastic islands (IVTIs) demonstrate nuclear labeling in all three entities and serve as an internal control.

## **Product Info**

Amount:  $100 \mu g$ 

**Purification:** Affinity Chromatography

Content: 100 μg in 500 μl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly

toxic.

Storage condition:

Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid

repeated freeze and thaw cycles.

## **Application Note**

Flow Cytometry (0.5-1ug/million cells); Immunofluorescence (0.5-1ug/ml); ,Immunohistochemistry (Formalin-fixed) (0.25-0.5ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 &degC followed by cooling at RT for 20 minutes),



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Formalin-fixed, paraffin-embedded human Bladder Carcinoma stained with p57 Monoclonal Antibody (57P06).