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36-1016: Monoclonal Antibody to p57Kip2 (Mitotic Inhibitor/Suppressor Protein)(KP10 + KIP2/880)(Discontinued)

Clonality :	Monoclonal
Clone Name :	KP10 + KIP2/880
Application :	FACS,IF,IHC
Reactivity :	Human,Mouse
Gene :	CDKN1C
Gene ID :	1028
Uniprot ID :	P49918
Format :	Purified
Alternative Name :	CDKN1C,KIP2
Isotype :	Mouse IgG
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 µg
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 (0.5-1Ã□Âµg/million cells in 0.1ml); Immunofluorescence (0.5-1Ã□Âµg/ml); Immunohistology (Formalin-fixed) (0.25-0.5Ã□Âµg/ml for 30 minutes at RT); (Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes); Optimal dilution for a specific application should be determined.

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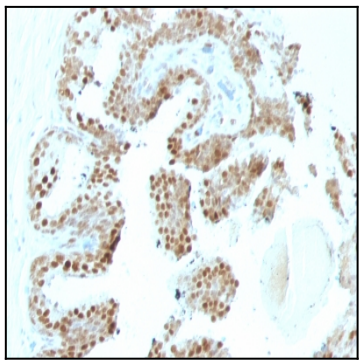

Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with p57 Monoclonal Antibody (KP10+KIP2/880).