

Datasheet for ABIN7504181

Recombinant anti-CDKN1C antibody**3** Images[Go to Product page](#)

Overview

| | |
|----------------|--|
| Quantity: | 100 µg |
| Target: | CDKN1C |
| Reactivity: | Human |
| Host: | Rabbit |
| Antibody Type: | Recombinant Antibody |
| Clonality: | Monoclonal |
| Conjugate: | This CDKN1C antibody is un-conjugated |
| Application: | Immunohistochemistry (Formalin-fixed Sections) (IHC (f)) |

Product Details

| | |
|--------------|---|
| Immunogen: | Recombinant full-length human p57Kip2 protein |
| Isotype: | IgG |
| Specificity: | Recognizes a protein of 57 kDa, 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 |

Product Details

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.

Cross-Reactivity (Details): Human and Mouse.

Purification: 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G.

Target Details

Target: CDKN1C

Alternative Name: CDKN1C ([CDKN1C Products](#))

Background: Beckwith Wiedemann syndrome (WBS), BWCR, Cyclin dependent kinase inhibitor 1C (CDKN1C), KIP2, p57,p57Kip2 (Mitotic Inhibitor/Suppressor Protein)
Cellular localisation: Nuclear

Molecular Weight: 57kDa

Gene ID: 1028, 106070

UniProt: [P49918](#)

Pathways: [Cell Division Cycle](#), [Dopaminergic Neurogenesis](#)

Application Details

Application Notes: Positive Control: Raji, HT29 or SK-BR3 cells. Human colon or prostate carcinomas.
Known Application: Immunohistochemistry (Formalin-fixed) (0.25-0.5 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95 °C followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: Prepared in 10 mM PBS with 0.05 % BSA and 0.05 % azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

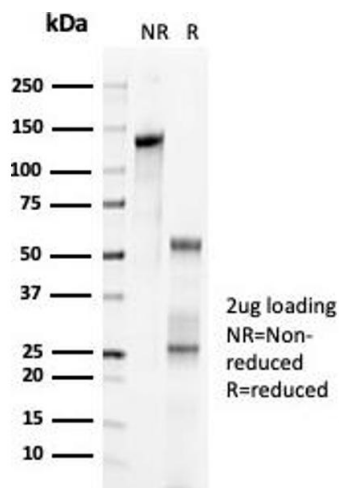
should be handled by trained staff only.

Storage: 4 °C,-80 °C

Storage Comment: Antibody with azide - store at 2 to 8 °C. Antibody is stable for 24 months. Non-hazardous. Also available WITHOUT BSA & azide at 1.0mg/ml.

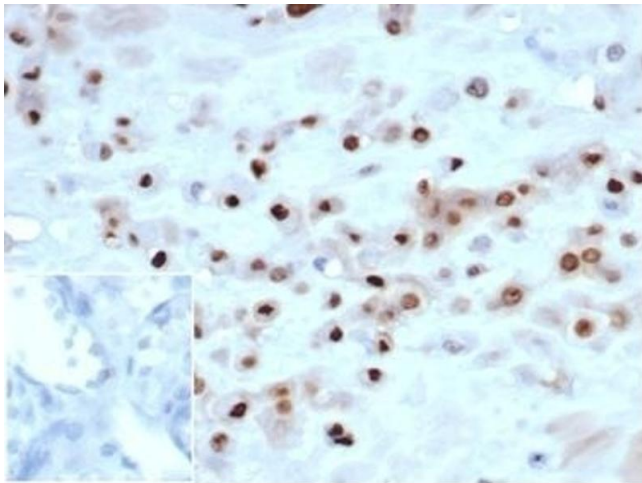
Expiry Date: 24 months

Images



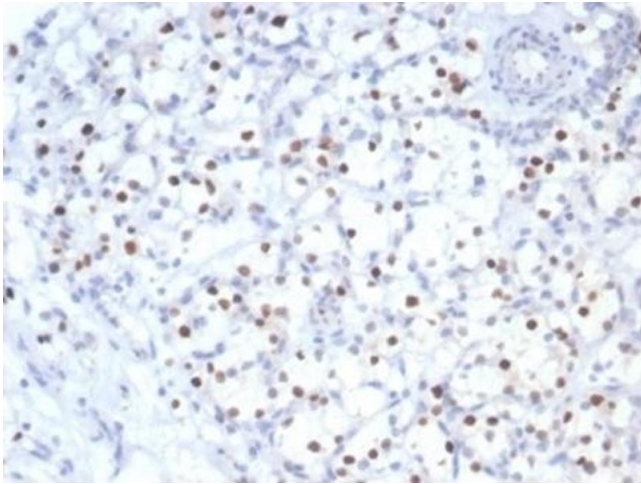
Western Blotting

Image 1. SDS-PAGE Analysis Purified p57 Recombinant Rabbit Monoclonal Antibody (KIP2/7083R). Confirmation of Purity and Integrity of Antibody.



Immunohistochemistry

Image 2. IHC analysis of formalin-fixed, paraffin-embedded human placenta. Strong nuclear staining using KIP2/7083R at 2 µg/mL in PBS for 30 min RT. Inset: PBS instead of primary antibody, secondary only negative control.



Immunohistochemistry

Image 3. IHC analysis of formalin-fixed, paraffin-embedded human kidney cancer. Strong nuclear staining using KIP2/7083R at 2 µg/mL in PBS for 30 min RT. HIER: Tris/EDTA, pH 9.0, 45 min. 2 °: HRP-polymer, 30 min. DAB, 5 min.