Datasheet for ABIN6939049

anti-CDKN1C antibody

2 Images

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Overview

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

Product Details

Immunogen:	Recombinant human p57Kip2 protein
Clone:	KP10
Isotype:	IgG2b
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, 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), Cyclin dependent kinase inhibitor p57, KIP2, p57, p57Kip2,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: LS174T, Raji, HT29, SK-BR3 cells. Colon or Prostate carcinomas. Known Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 min 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&degC followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

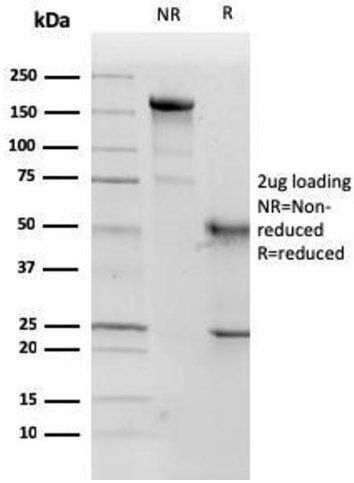
Handling

Concentration:	200 µg/mL
Buffer:	Prepared in 10 mM PBS with 0.05 % BSA and 0.05 % azide.
Preservative:	Sodium azide

Handling

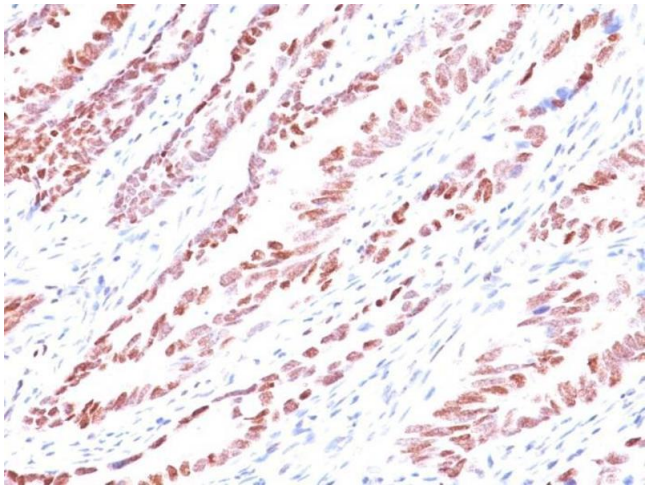
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8 °C. Antibody is stable for 24 months. Non-hazardous. Also available WITHOUT BSA & azide at 1.0mg/ml.
Expiry Date:	24 months

Images



SDS-PAGE

Image 1. SDS-PAGE Analysis Purified p57 Monoclonal Antibody (KP10). Confirmation of Purity and Integrity of Antibody



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with p57 Monoclonal Antibody (KP10).