Immunoway
Best Tools for immunology Research

p57kip2 (ABT214) mouse mAb

Catalog No :	YM4838
Reactivity :	Human;Mouse;Rat;
Applications :	IHC;WB;IF;ELISA
Target :	p57
Fields :	>>Cell cycle
Gene Name :	CDKN1C
Protein Name :	Cyclin-dependent kinase inhibitor 1C
Human Gene Id :	1028
Human Swiss Prot No :	P49918
Mouse Gene Id :	12577
Mouse Swiss Prot No :	P49919
Immunogen :	Synthesized peptide derived from human protein. AA range:200-316
Specificity :	The antibody can specifically recognize human p57kip2 protein.
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Mouse, Monoclonal/IgG2b, kappa
Dilution :	IHC 1:200-1000. WB 1:500-2000. IF 1:100-500. ELISA 1:1000-5000
Purification :	Protein G
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	50kD

Observed Band : 57kD

Cell Pathway : Cell_Cycle_G1S;Cell_Cycle_G2M_DNA;

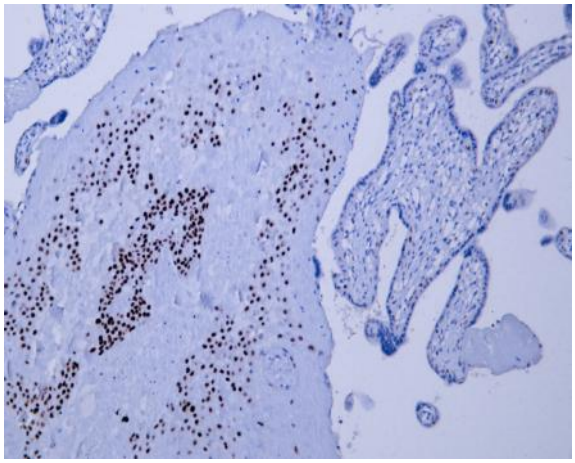
Background : P57kip2 is a cell cycle inhibitor and tumor suppressor. The gene is mainly located on the mother's chromosome 11. By blocking the G1 / S phase transition in the cell cycle, we can realize the negative regulation of the cell cycle, and then prevent cell proliferation and tumor formation. In complete hydatidiform mole, there is a lack of maternal gene and p57 negative expression, while in partial hydatidiform mole, there are genes of both parents and p57 positive expression, which can be used for the study of early hydatidiform mole pregnancy.

Function : disease:Defects in CDKN1C are a cause of Beckwith-Wiedemann syndrome (BWS) [MIM:130650]. BWS is a genetically heterogeneous disorder characterized by anterior abdominal wall defects including exomphalos (omphalocele), pre- and postnatal overgrowth, and macroglossia. Additional less frequent complications include specific developmental defects and a predisposition to embryonal tumors.,disease:Defects in CDKN1C are involved in tumor formation.,function:Potent tight-binding inhibitor of several G1 cyclin/CDK complexes (cyclin E-CDK2, cyclin D2-CDK4, and cyclin A-CDK2) and, to lesser extent, of the mitotic cyclin B-CDC2. Negative regulator of cell proliferation. May play a role in maintenance of the non-proliferative state throughout life.,similarity:Belongs to the CDI family.,tissue specificity:Expressed in the heart, brain, lung, skeletal muscle, kidney, pancreas and testis. High levels ar

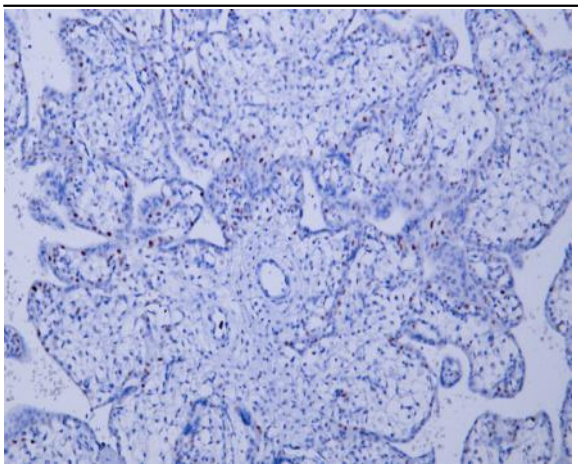
Subcellular Location : Nuclear

Expression : Expressed in the heart, brain, lung, skeletal muscle, kidney, pancreas and testis. Expressed in the eye. High levels are seen in the placenta while low levels are seen in the liver.

Products Images



Human placenta tissue was stained with Anti-p57kip2 (ABT214) Antibody



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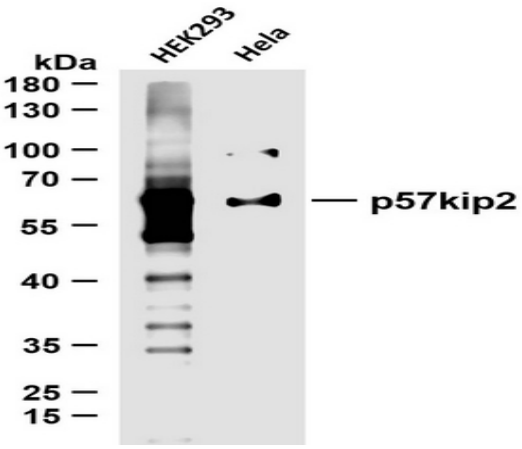

Various whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-p57kip2 (ABT214) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: HEK293 Lane 2: Hela