



# p57kip2 Rabbit mAb (Ready to Use)

<b>Catalog No</b>	YP-rAb-18259
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human
<b>Applications</b>	IHC
<b>Gene Name</b>	CDKN1C
<b>Protein Name</b>	Beckwith Wiedemann syndrome;BWCR;BWS;CDKI;CDKN 1C;CDKN1C;CDN1C_HUMAN;Cyclin dependent kinase inhibitor 1C;Cyclin dependent kinase inhibitor p57;Cyclin-dependent kinase inhibitor 1C;Cyclin-dependent kinase inhibitor p57;KIP 2;KIP2;p57;p57 Kip 2;p57KIP2;WBS
<b>Purification Process</b>	Protein A
<b>Specificity</b>	This antibody detects endogenous levels of p57
<b>Formulation</b>	The prediluted ready-to-use antibody is diluted in phosphate buffer saline containing stabilizing protein and 0.05% Proclin 300
<b>Source</b>	Monoclonal, Rabbit,IgG
<b>Dilution</b>	Ready to use for IHC Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
<b>Concentration</b>	0.5 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	2° C to 8° C/1 year,Ship by ice bag
<b>Synonyms</b>	Beckwith Wiedemann syndrome ; BWCR ; BWS ; CDKI ; CDKN 1C ; CDKN1C ; CDN1C_HUMAN ; Cyclin dependent kinase inhibitor 1C ; Cyclin dependent kinase inhibitor p57 ; Cyclin-dependent kinase inhibitor 1C ; Cyclin-dependent kinase inhibitor p57 ; KIP 2 ; KIP2 ; p57 ; p57 Kip 2 ; p57KIP2 ; WBS
<b>Observed Band</b>	
<b>Calculated Molecular Weight</b>	
<b>Cell Pathway</b>	Nuclear
<b>Tissue Specificity</b>	Placenta/ Kindey
<b>Function</b>	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 are seen in the placenta while low levels are seen in the liver.,

### Background

This gene is imprinted, with preferential expression of the maternal allele. The encoded protein is a tight-binding, strong inhibitor of several G1 cyclin/Cdk complexes and a negative regulator of cell proliferation. Mutations in this gene are implicated in sporadic cancers and Beckwith-Wiedemann syndrome, suggesting that this gene is a tumor suppressor candidate. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Oct 2010],

### matters needing attention

Avoid repeated freezing and thawing!

### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

